1928

YEAR BOOK

of the

Massachusetts Horticultural Society

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1928

YEAR BOOK

OF THE

MASSACHUSETTS HORTICULTURAL SOCIETY

WITH THE

ANNUAL REPORT

FOR 1927

1438
Gift
The Society
April 24, 1928

Foreword

The Committee on Lectures and Publications has the honor to present the fifth number of the Society's "Year Book" with which is combined the Annual Report for the year 1927.

E. H. Wilson, *Chairman.*

Boston, Mass.
March 5, 1928.

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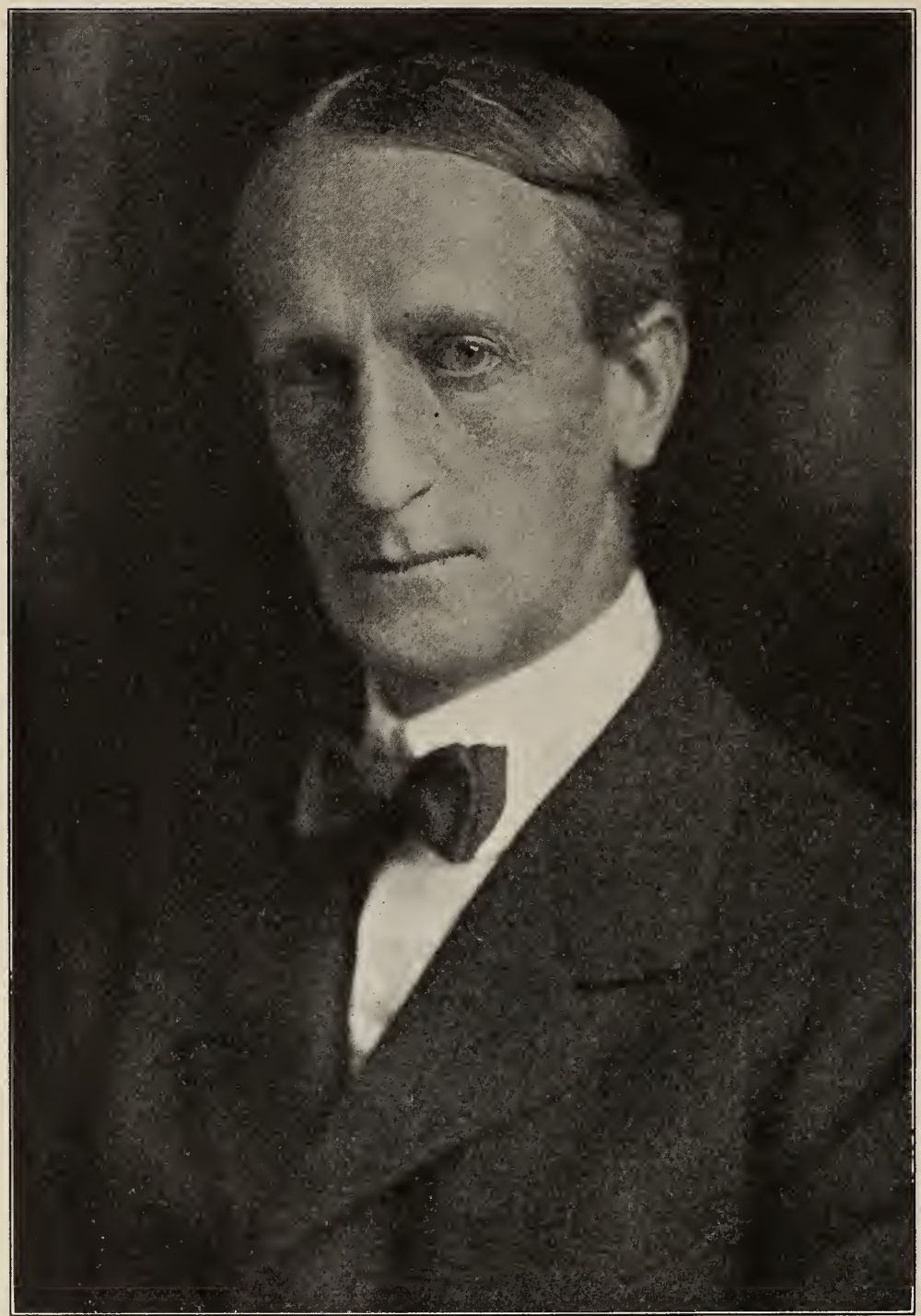

PROFESSOR OAKES AMES

Newly Elected Vice-President of the Massachusetts Horticultural Society

Massachusetts Horticultural Society

OFFICERS FOR 1928

President

ALBERT C. BURRAGE, of Boston

Vice-Presidents

EDWIN S. WEBSTER, of Boston

OAKES AMES, of North Easton

Treasurer

JOHN S. AMES, of North Easton

Secretary

E. I. FARRINGTON, of Weymouth*

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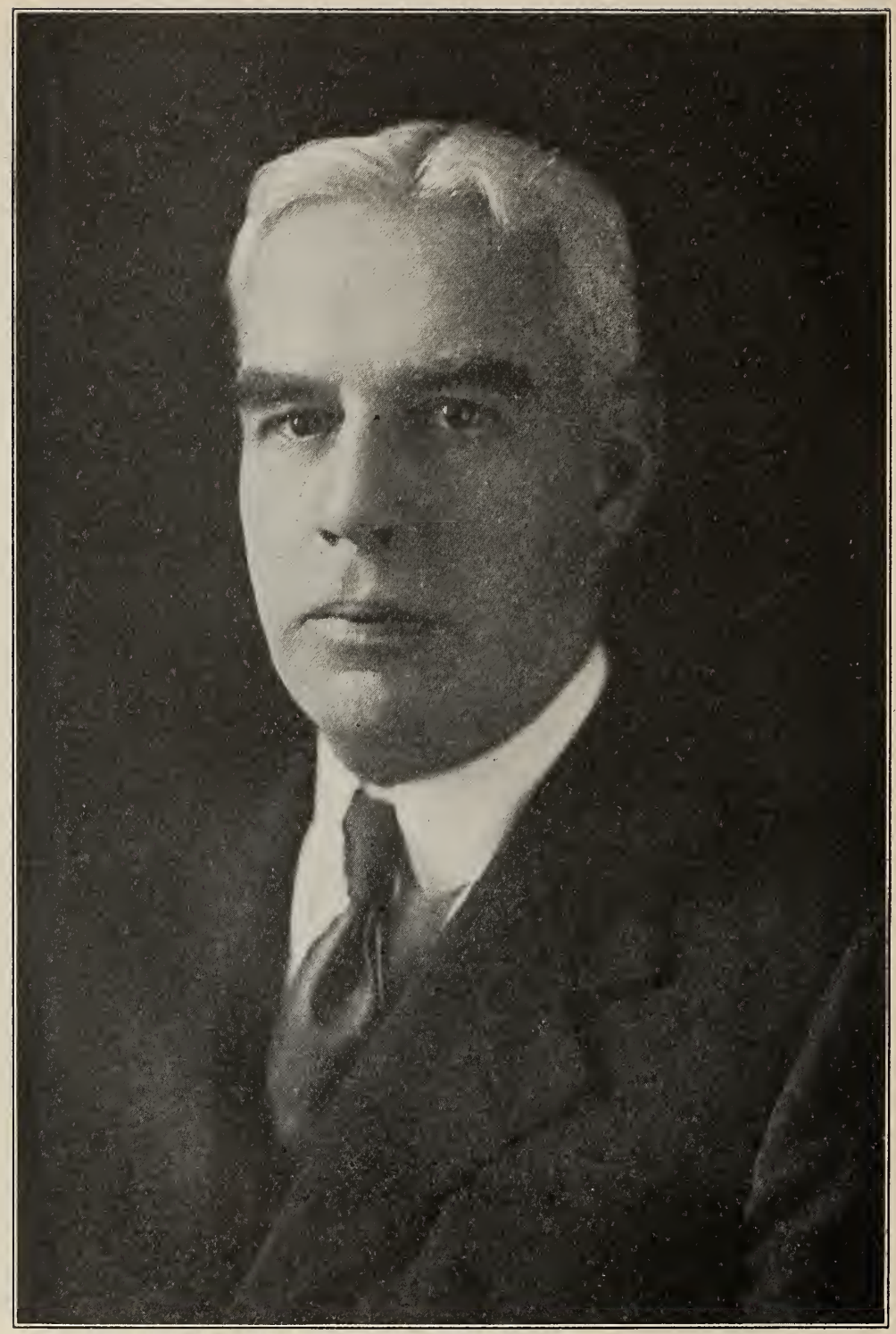
A. C. BURRAGE, of Boston
ROBERT CAMERON, of Ipswich
MISS MARIAN R. CASE, of Weston
HOWARD COONLEY, of Readville
MRS. S. V. R. CROSBY, of Boston
WILLIAM C. ENDICOTT, of Boston
MRS. HOMER GAGE, of Worcester
WALTER HUNNEWELL, of Wellesley
NATHANIEL T. KIDDER, of Milton
ARTHUR LYMAN, of Boston
ROBERT C. MORSE, of Hyde Park
THOMAS ROLAND, of Nahant
MRS. BAYARD THAYER, of South Lancaster
GEORGE C. THURLOW, of West Newbury
LORING UNDERWOOD, of Belmont
HENRY P. WALCOTT, of Cambridge
WILFRID WHEELER, of Concord
EDWIN S. WEBSTER, of Boston
ERNEST H. WILSON, of Jamaica Plain
FRED A. WILSON, of Nahant

*Communications to the Secretary on the business of the Society, should be addressed to him at Horticultural Hall, Boston.



Mr. Robert C. Morse

Newly Elected Trustee of the Massachusetts Horticultural Society

COMMITTEES AND JUDGES FOR 1928

Finance Committee

ALBERT C. BURRAGE, Chairman

JOHN S. AMES — EDWIN S. WEBSTER

Executive Committee

ALBERT C. BURRAGE, Chairman

JOHN S. AMES — MRS. BAYARD THAYER

OAKES AMES — EDWIN S. WEBSTER

Membership Committee

ROBERT CAMERON, Chairman

ARTHUR LYMAN — GEORGE C. THURLOW

Committee on Prizes

ERNEST H. WILSON, Chairman — THOMAS ROLAND

Committee on Exhibitions

THOMAS ROLAND, Chairman

HARLAN P. KELSEY — ERNEST H. WILSON

JAMES MARLBOROUGH — WILFRID WHEELER

Committee on Library

NATHANIEL T. KIDDER, Chairman

JOHN S. AMES — MRS. BAYARD THAYER

Committee on Lectures and Publications

ERNEST H. WILSON, Chairman

HOWARD COONLEY — LORING UNDERWOOD

Committee on Buildings

FRED A. WILSON, Chairman

JOHN S. AMES — ROBERT C. MORSE

Committee on Gardens

MRS. HOMER GAGE, Chairman

WALTER HUNNEWELL — MRS. S. V. R. CROSBY

MRS. BAYARD THAYER — MRS. F. B. CROWNINSHIELD

Committee on G. R. White Medal of Honor

OAKES AMES, Chairman

WILLIAM C. ENDICOTT — MRS. S. V. R. CROSBY

Committee on Children's Gardens

MISS MARIAN ROBY CASE, Chairman — D. W. O'BRIEN

Judges of Plants and Flowers

WILLIAM ANDERSON, Chairman

SAMUEL J. GODDARD — DONALD McKENZIE

WILLIAM H. JUDD — GEORGE F. STEWART

Judges of Fruits

JAMES METHVEN, Chairman

WALTER G. KENDALL — ANDREW K. ROGERS

Judges of Vegetables

EDWARD PARKER, Chairman

RAY M. KOON — PAUL P. MAILLARD

Medals and Certificates

The following is a list of Medals and Certificates awarded by the Massachusetts Horticultural Society in 1927:

George Robert White Medal of Honor

Jan. 10. Professor Liberty Hyde Bailey, for eminent service in horticulture.

Jackson-Dawson Medal

Oct. 28. Lambertus C. Bobbink, for skill in propagating hardwood plants.

Thomas Roland Medal

Mar. 29. Thomas Roland, for skill in horticulture.

President's Cup

Mar. 30. Mrs. Albert C. Burrage, for group of Roses.
June 25. Miss Marian R. Case, for display of Delphiniums.
Aug. 20. A. L. Stephen, for the most meritorious exhibit in the show.
Sept. 10. Mrs. Moses Taylor, for collection of fruit and vegetables artistically displayed.
Oct. 28. Wyman's Framingham Nurseries, for group of evergreens.

Large Gold Medal

Mar. 30. Robert C. Morse, for group of Rhododendrons and Azaleas.
" 30. Mrs. Albert C. Burrage, for group of Roses.
" 30. Albert C. Burrage, for group of Orchids.
" 30. Edwin S. Webster, for group of flowering plants.
May Mr. and Mrs. Edwin S. Webster, for group of foliage and flowering plants at the Chestnut Hill Garden Club's exhibition.
June 7. Fitz Eugene Dixon, for a group of Orchids at the Penn. Horticultural Society's exhibition.
Oct. 28. Albert C. Burrage, for a group of Orchids.

Oct. 28. Frederick S. Moseley, for an estate of superior merit.
" 28. Dr. Walter G. Kendall, for a comprehensive exhibit of hardy grapes.
Nov. 10. Mrs. Marcus Loew, for the greatest number of points at the Autumn Exhibition of the Horticultural Society of New York.

Exhibition Gold Medal

Jan. 10. Albert C. Burrage, for display of Orchids.
Mar. 30. Harold Patten, for artistic display of cut Carnations.
" 30. Edwin S. Webster, for display of Orchid Plants.
" 30. Noanett Garden Club, for the most meritorious exhibit among the garden clubs.
June 4. Miss Marian R. Case, for comprehensive display of Iris.
" 25. T. F. Donahue, for artistic display of herbaceous plants.
Aug. 20. L. G. Rowe, for Gladioli display.
Sept. 10. The Seven Acres, for display of Dahlias.
Oct. 28. Bay State Nurseries, for collection of evergreen coniferous plants.
" 28. Patten & Company, for display of single and Pompon Chrysanthemums.
" 28. Thomas Roland, for display of Orchids.
" 28. Wyman's Framingham Nurseries, for coniferous and deciduous trees.

Silver Medal

Jan. 10. E. B. Dane, for display of Orchids.
Mar. 30. Kelsey Highlands Nursery, for group of evergreens and hardy flowering plants.
" 30. William Sim, for artistic display of cut Carnations.
" 30. S. J. Goddard, for artistic display of cut Carnations.
" 30. F. W. Hunnewell, for display of Orchid Plants.
" 30. J. T. Butterworth, for display of Orchid Plants.
" 30. Wm. Hannan & Son, for two specimen Ferns.

Mar. 30. Harvard Botanic Garden, for group of foliage and flowering plants.
" 30. Robert C. Morse, for pair of Laburnum Standards.
" 30. Robert C. Morse, for Rhododendron Pink Pearl.
" 30. Louis Vasseur, for group of flowering shrubs and rock plants.
" 30. Joseph Breck & Sons, for display of Narcissus.
" 30. R. & J. Farquhar Co., for group of hardy evergreen and flowering plants.
" 30. Walter S. Lenk, for Gardenias.
" 30. Noanett Garden Club, for display exhibit in life scale representing a garden scene.
" 30. North Andover Garden Club, for an exhibit in life scale representing an indoor scene.
June 4. T. F. Donahue, for comprehensive display of Iris.
" 4. Mr. J. Montgomery Sears, for Viscaria.
" 4. George N. Smith, for display of Iris and Lupins.
" 18. Cherry Hill Nurseries, for display of Peonies.
" 18. F. H. Allison, for display of Peonies.
" 18. Cherry Hill Nurseries, for display of Peony seedlings.
" 25. Moses Taylor, for collection of hardy Roses.
" 25. Stewart Duncan, for most effective display of Sweet Peas.
" 25. Louis Vasseur, for hardy herbaceous perennials.
" 25. Cherry Hill Nurseries, for display of Peonies.
June 25. Charles R. Dewey, for display of Peonies.
Aug. 20. North River Farms, for Gladioli display.
" 20. Joseph Breck & Sons, for group of Campanula isophylla and Campanula isophylla alba.
" 27. Brockton School Gardens, for display of their products.
Sept. 10. J. K. Alexander, for display of Dahlias.
" 10. Stoughton Nurseries, for collection of Delphiniums.
" 10. Weston Nurseries, for hardy herbaceous perennials.

Sept. 10. D. J. F. Sabin, for artistic display of Dahlias.
" 10. Charles Scott, for cultural skill in growing fruit and vegetables.
" 10. Thomas Murphy, for display of seedling Dahlias in variety.
" 10. Bay State Nurseries, for special display of hardy herbaceous perennials.
" 10. Mrs. Moses Taylor, for collection of Tomatoes.
Oct. 28. Edwin S. Webster, for group of Chrysanthemum plants.
" 28. Howard Coonley, for best plant of Emita Begonia.
" 28. William H. Vanderbilt, for Chrysanthemums (25 cut blooms)
" 28. New England Wild Flower Preservation Society, for an educational display.
" 28. Harvard University Botanic Garden, for hardy Chrysanthemums.
" 28. W. E. Lenk, for variety display of Roses, Gardenias, and Delphiniums.
" 28. Mrs. Louis A. Frothingham, for a Rose garden of superior merit.
" 28. Mrs. Frederick Shattuck, for a garden of unusual character.
" 28. Mr. Louis Vasseur, for a collection of fruits.

Bronze Medal

Mar. 30. White & Johnson Co., for artistic display of cut Carnations.
" 30. Matthew P. Whittall Estate, for Mignonette in Pots.
" 30. Mrs. J. M. Sears, for cut Petunias.
" 30. Mrs. R. M. Saltonstall, for Verbena Standards.
" 30. Mrs. Albert C. Burrage, for Lily of the Valley.
" 30. Robert C. Morse, for Rhododendron decorum.
" 30. William MacBean, for exhibit of Lilies and Spiraeas.
" 30. Howard Coonley, for Schizanthus.
" 30. Mrs. Robert Morse (Noanett Garden Club) for best six plants.

LAMBERTUS C. BOBBINK

Awarded the Jackson Dawson Memorial Medal in 1927

Mar. 30. Mrs. O. M. Godfrey, (No. Andover Garden Club) for best collection of flowering bulbs.

June 18. T. F. Donahue, for a display of Peonies arranged for effect.

" 18. T. F. Donahue, for three blooms of the new double Peony "Decoration."

" 25. Wm. F. Dusseault, for collection of hardy Roses.

" 25. Henry L. F. Naber, for hardy herbaceous perennials.

" 25. Shaylor & Allison, for display of Peonies.

Aug. 20. Jelle Roos, for a display of Gladioli.

" 20. Harvard Botanic Garden, for group of Statice and other plants.

" 20. Cherry Hill Nurseries, for display of Phlox.

" 20. William Edwin Clark, for four South African species and collection of Primulinus Gladiolus.

" 20. Wyman's Framingham Nurseries, for group of evergreens.

Sept. 10. White & Johnson Co., for hardy herbaceous perennials.

" 10. Lily Gardens, for display of Lilium speciosum magnificum.

" 10. E. H. Wetterlow & Son, for display of seedling Begonias.

" 10. I. A. Racz, for Figs and Sedum.

Oct. 28. Mrs. Homer Gage, for group of Chrysanthemum plants.

" 28. Mrs. Moses Taylor, for Chrysanthemums, (25 cut blooms).

" 28. White & Johnson Co., for Japanese Garden.

" 28. Penn, the Florist, for table display.

" 28. Mrs. Isaac Sprague, for a rock garden of superior merit.

" 28. Mrs. J. O. Wardwell, for a walled garden of superior merit.

Bronze Medals for Children's Gardens

Alton E. Hodges, Jamaica Plain High School
Oswald Tippo, Jamaica Plain High School
Joseph G. O'Mara, Jamaica Plain High School
E. Byam Gee, Jamaica Plain High School
John H. Keenan, Jamaica Plain High School
Karl O. Anderson, Jamaica Plain High School
Richard M. Hynes, Jamaica Plain High School
Ruth Atkins, Martin School Garden
Angelo Belmonte, North End Garden
Mary W. DeCosta, Deerfield St. Garden
Forrest Hartin, Stow
Clifford Bowles, Lincoln
Adams Zabierek, Chelmsford Ctr.
Adelard Poirier, No. Billerica
Eugenia Caragianis, Dracut
Lucy Mignosa, Waltham
George Grafton, Stoneham
Guido Antognori, Concord
Generino Luongo, Lexington
Tony Franciose, Natick
Elmer Kimball, Framingham
Carlton H. Beverly, Ayer
Elfriede Hollenback, Roslindale
Luigi Bertucci, South Boston
Edward Webster, Roslindale
Joseph Geary, Dorchester
Wesley Snow Faulk, Brockton
Ervin N. Snow, Brockton
Joseph O'Brien, Brockton
Joseph Driscoll, Brockton
Margaret Rush, Roxbury
Antoinette Bontempo, Brighton
Ralph French, West Roxbury
John Gaquin, Henry L. Pierce School
Theodore Nelson, Florence Nightingale School

First Class Certificate of Merit

Jan. 10. Cypripedium Dixon Thorpe, exhibited by Albert C. Burrage.

" 10. Cypripedium T. M. Ogilvie, The Premier, exhibited by T. E. Proctor.

Oct. 28. Laeliocattleya Euclid, exhibited by Albert C. Burrage.

Award of Merit

Jan. 10. Cypripedium Rheims, exhibited by E. B. Dane.

" 10. Brassocattleya Miranda Lemoniana, exhibited by E. B. Dane.

" 10. Primula Sutton's Coral Pink, exhibited by Howard Coonley.

" 10. Cypripedium Major Hanbury Carlyle, exhibited by A. C. Burrage.

" 10. Cypripedium Alcibiades nobilis illustris, exhibited by A. C. Burrage.

" 10. Cypripedium Olympus, The Chairman, exhibited by Albert C. Burrage.

" 10. Lycastle Tunstillii, exhibited by Albert C. Burrage.

" 10. Cypripedium viridissimum Blenheim House, exhibited by Albert C. Burrage.

Mar. 30. Cypripedium Diana aurea, exhibited by Joseph Manda.

" 30. Brassocattleya, Rex Illuminator, exhibited by Edwin S. Webster.

" 30. Odontoglossum Armainvillierense, Johnsoni, exhibited by Albert C. Burrage.

" 30. Display exhibit in life scale representing a garden scene, exhibited by the Milton Garden Club.

June 4. Orchid Coelogyne Burfordiense, exhibited by F. W. Hunnewell.

" 4. Peony Avant Garde, exhibited by the Cherry Hill Nurseries.

" 4. Peony Le Printemps, exhibited by the Cherry Hill Nurseries.

June 4. Peony officinalis varieties, exhibited by the Cherry Hill Nurseries.

" 4. Iris Grace Sturtevant, exhibited by the Glenwood Iris Gardens.

" 4. Iris Palmyra seedling, exhibited by A. J. Bliss.

" 18. Peony Jubilee, exhibited by T. F. Donahue.

" 18. Peony La Lorraine, exhibited by T. F. Donahue.

" 18. Lilium Batemanniae, exhibited by Wm. N. Craig.

" 25. Rose Angele Pernet, exhibited by Moses Taylor.

Aug. 20. Gladiolus Saundersii, exhibited by Wm. Edwin Clark.

Oct. 28. Cattleya Woltersiana, exhibited by Albert C. Burrage.

" 28. Cypripedium Our Prince, exhibited by Thomas Roland.

" 28. Cypripedium nitens leanum vivicans, exhibited by Thomas Roland.

" 28. Chrysanthemum Sarah Fisher, vase of, exhibited by Patten & Co.

Vote of Commendation

Jan. 10. Schizanthus, exhibited by Howard Coonley.

" 10. Lycaste Denningiana, exhibited by Albert C. Burrage.

Mar. 30. Primula malacoides, exhibited by Eric Wetterlow.

" 30. Beaumontia grandiflora, exhibited by Mrs. J. M. Sears.

" 30. Azalea Kirin, specimen exhibited by Mrs. R. M. Saltonstall.

June 4. Peony May Flower, exhibited by Cherry Hill Nurseries.

" 25. Delphinium Seedlings, exhibited by Wm. Brewsher.

" 25. Sweet Peas, display of, exhibited by Stewart Duncan.

" 25. Educational exhibit of garden peas on the vine, exhibited by the Market Garden Field Station.

Cultural Certificate

Jan. 10. George Stewart, for Cattleya Percivalliana.
" 10. T. E. Proctor, for Cypripedium insigne superba
" 10. T. E. Proctor, for Cypripedium insigne Hareford Hall.
Mar. 30. Wm. Hannan & Son, for two specimen Ferns.
" 30. Mrs. R. M. Saltonstall, for specimen plant single flowering Marguerites.
" 30. Walter S. Lenk, for Gardenias.
" 30. F. W. Hunnewell, for specimen Cymbidium.
Nov. 19. Butterworth's, for collection of Cypripediums.

Garden Certificates

Oct. 28. Mrs. George B. Churchill, for a garden of superior merit.
" 28. Mrs. Gertrude W. Phillips, for a home garden of superior merit.

Vote of Thanks

June 4. Wyman's Framingham Nurseries, for Azaleas and evergreens.
" 4. Edwin S. Webster, for Lantanas.
" 25. Market Garden Field Station, for two varieties of Cauliflower.
Aug. 20. George N. Smith, for table and basket of Gladioli.
" 20. Joseph Breck & Sons, for table of Gladioli.
" 20. F. P. Webber, for seedling Dahlia Autumnal.
Oct. 20. W. W. Edgar Co., for table display.
" 28. Framingham Nurseries for small group of evergreens.
" 28. Walter E. Lenk, for vase of Physalis Franchetii.
" 28. F. W. Holbrow, for vase of Bouvardia Humboltii.
" 28. I. A. Racz, for Figs in tubs.

Horticultural Society of New York Gold Medal

Mar. 30. Thomas Roland, for most original and effective exhibit in the show. (Orchid group.)

Pennsylvania Horticultural Society Gold Medal

Mar. 30. Chestnut Hill Garden Club, for best arranged group of plants in the show.

Silver Medal of the American Peony Society

June 18. Cherry Hill Nurseries, for the best collection of Peonies.

Chestnut Hill Garden Club Medal

Mar. 30. Mrs. Homer Gage, for bulb garden.

Special Silver Plate

Mar. 30. Howard Coonley, for group of annuals.
" 30. Mrs. Homer Gage, for bulb garden.
" 30. Mrs. Bayard Thayer, for group of Lilies.
" 30. Howard Coonley, for special group of plants.
" 30. Albert C. Burrage, for group of Phalaenopsis.
" 30. Thomas Roland, for group of Cypripediums.

William B. H. Dowse Trophy Cup

Aug. 20. Oakland Farm, for a collection of vegetables.

George Robert White Medal Award

It was announced by the Trustees in March, 1927, that the George Robert White Medal of Honor had been awarded to Dr. Liberty Hyde Bailey, of Ithaca, N. Y. This award was made on the recommendation of a special committee, of which Professor C. S. Sargent was chairman. The award was made to Dr. Bailey for his remarkable achievements in horticulture, and especially for his work as an educator, author and editor. Dr. Bailey's Cyclopaedia of Horticulture is one of the most important horticultural works ever produced in this country. In addition, he has edited the Cyclopaedia of American Agriculture, and has written and edited many other books and manuals.

Dr. Bailey was born in South Haven, Mich., in 1858. After graduating from the Michigan Agricultural College in 1882, he became a professor of horticulture and landscape gardening. Later he was appointed to the chair of Experimental Horticulture at Cornell University, where he became the dean of the College of Agriculture and director of the Experiment Station. He retired in 1913, and has spent his time since in travel, lecturing and writing.

The George Robert White Medal is generally accepted as the highest horticultural award in America. It is given once a year from a fund established by the man whose name it bears, and who in many ways has been one of Boston's greatest benefactors.

The medal, designed by John Flanagan, is of coin gold and weighs eight and a half ounces. It has been awarded each year since its establishment, as follows:

1909. Prof. Charles S. Sargent, Director of the Arnold Arboretum, Jamaica Plain, Mass.

1910. Jackson Thornton Dawson, well known and accomplished plantsman of the Arnold Arboretum.

1911. Victor Lemoine of Nancy, France, originator of many of the popular varieties of flowering plants to be found in the gardens of today.

1912. Michael H. Walsh, Rose specialist of Woods Hole, Mass., originator of the Lady Gay Rose and many other popular Rambler Roses.

1913. The Park Commission of the City of Rochester, N. Y., in recognition of its tasteful work in landscape planting.

1914. Sir. Harry James Veitch of London, England, seedsman, nurseryman, introducer and propagator of many desirable ornamental garden plants.

1915. Ernest Henry Wilson of Boston, for his botanical and horticultural work in China and Japan, and the discovery of many new varieties of flowering plants, shrubs and trees.

1916. William Robinson of London, England, for his educational work in horticultural literature.

1917. Niels Ebbesen Hansen of Brookings, S. D., for the introduction of new varieties of plants and fruits in the Northwestern States.

1918. Dr. Walter Van Fleet of Washington, D. C., for the production of new varieties of Roses.

1919. Vilmorin-Andrieux et Cie., Paris, France, for the introduction of new varieties of plants and vegetables.

1920. George Forrest of England, for his work in the introduction of garden plants from China.

1921. Mrs. Louisa Yeomans-King of Alma, Mich., for her work in popularizing gardening.

1922. Albert C. Burrage of Boston, for his work in advancing interest in horticulture.

1923. John McLaren of San Francisco, for his work in the development of horticulture on the Pacific Coast.

1924. J. Pernet-Ducher, Venissieux-Les-Lyons, France, Rosarian, for eminent service in horticulture, especially in the production of new Rose varieties.

1925. Prof. U. P. Hedrick of Geneva, N. Y., for his work in originating new varieties of fruits.

1926. Pierre S. duPont of Wilmington, Del., for his work in popularizing horticulture and for the establishment of a great winter garden at Longwood, Pa.

1927. Dr. Liberty Hyde Bailey of Ithica, N. Y., for his work in promoting horticultural education and for his books.

Among the Mountain Laurel on Mr. Moseley's Estate

Frederick S. Moseley's Estate

The estate to which the Massachusetts Horticultural Society's large gold medal was awarded in 1927, that of Mr. Frederick S. Moseley of Newburyport, known as Maudesleight Farm, has many interesting features, but is notable particularly for its Mountain Laurel (Kalmia latifolia). It is doubtful if there is another estate in New England which has so many large plants.

There are 1,100 acres in the estate, which is situated on the bank of the Merrimac River, and the Kalmias cover about ten acres, most of them being grown among Pine trees on rolling land, creating a very picturesque appearance. There are thousands of Kalmia plants, some of them 10 to 12 feet high. They represent a natural growth, and have been given the most expert care and are in a most flourishing condition.

Nearer the entrance to the estate are several flower gardens, a fine collection of lilacs, a vegetable garden and a fruit garden, the latter containing many trained trees.

One particularly interesting feature in connection with the lilac planting is the use of Pachysandra terminalis as a ground cover. This forms a solid mat, completely covering the ground under the plants.

When the visitor reaches the Italian garden, his attention is immediately attracted by the beautiful hedge which surrounds it, its soft green being very lovely. This hedge is formed of English Hawthorn (Crataegus oxyacantha) which, although it has been growing many years, is in perfect condition. In spite of the fact that it makes a charming hedge, this hawthorn is too seldom used for this purpose in this country.

The beds in the garden are surrounded by low box edgings, which are in excellent condition, and add an old-fashioned touch to the grounds.

The ground at the side of the flower garden drops abruptly several feet, being sustained by a brick wall with a stone coping. The beds at the base of this wall are planted with roses in variety which produce a succession of flowers all summer. The rose beds are edged with sweet alyssum.

At the rear of the garden and dividing it from the green-

Perennial Borders in Mr. Moseley's Garden

house area, one finds a tall hedge of Laurel-leaf willow (Salix pentandra).

The vegetable garden is surrounded by a hedge of Norway spruce from nine feet to 18 feet high, kept smooth and even by constant shearing.

From the vegetable garden one passes along a path bordered on each side by herbaceous plants massed against a spruce hedge nine feet high. This herbaceous border with its spruce background is 400 feet long, and opens upon the fruit gardens where the walks are bordered by trees trained as cordons and espaliers on trellises.

At the end of the long walk one passes through a planting of Rhododendron maximum with specimens 10 feet to 12 feet in height. Then the visitor enters a beech groove and later may walk for miles on roads and paths cut through pine and oak woods, crossing the lake by a three-arch bridge and thus reaching Laurel Hill, from which point one gets a wonderful view of the Merrimac River, and in the distance the Atlantic Ocean. Mr. Moseley's love for trees is evidenced on every hand. There are thousands of specimens of different kinds, all of which show the most careful handling. It is the trees and the laurel that give the estate its fascinating qualities, although the other features are not to be overlooked. The whole estate is kept in perfect condition under the direction of Charles Gattrell, the very efficient superintendent.

Mrs. Louis A. Frothingham's Rose Garden

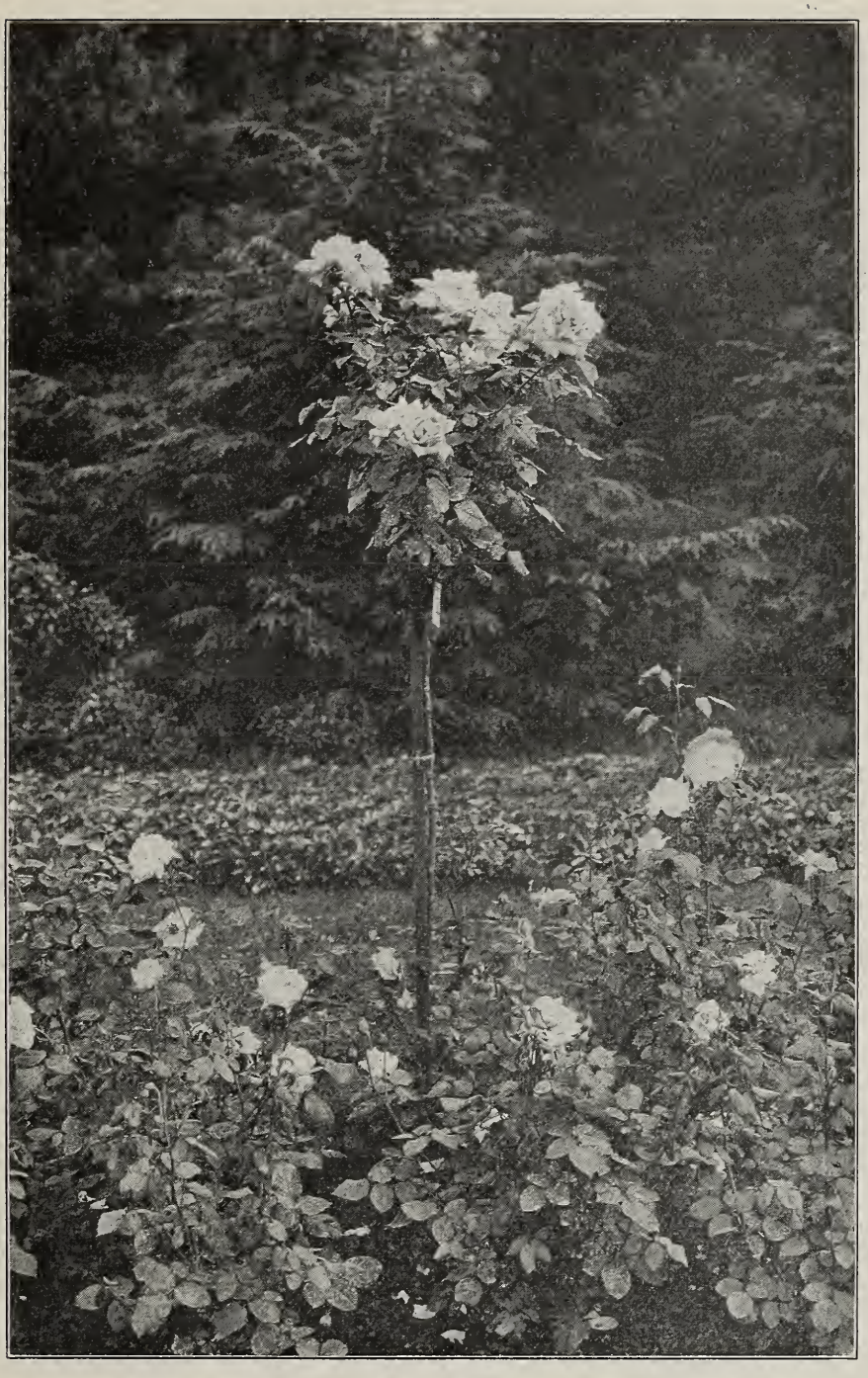
Mrs. Frothingham's Rose Garden

The North Easton rose garden of Mrs. Louis A. Frothingham, awarded a silver medal, is considered one of the finest on the Atlantic coast. The garden is really divided into three sections. The upper section is 36 x 48 feet, the middle section 44 x 64 feet and the lower section 64 x 112 feet.

Mrs. Frothingham had done some experimental work with roses for several years before the present garden was constructed. Then she placed the whole matter of preparing and planting the ground into the hands of Mrs. Harriet Foote.

Mrs. Foote selected the roses and supervised the planting, but the design of the garden was made by Mr. Herbert J. Kellaway, landscape architect, of Boston, and is very charming. The mansion, which sets well back from the road, is surrounded by trees and lawns. A vista has been cut through a woody growth, with the Italian summer house at the further end. This structure was found in Italy by Mrs. Frothingham and brought over some years ago. It marks a right-angle turn in the walk leading to the rose garden. The moment that this turn is made the visitor finds himself looking down upon a series of terraces with roses blooming on every side, and a much larger summer house facing a round pool, which is 23 feet in diameter with an 18-inch curb. This pool contains a fountain and is surrounded by baby rambler roses, making a floral border which keeps its charm throughout the summer.

The lower garden is circular, following the lines of the pool. This latter garden is partly surrounded by a lattice work on which climbing roses have been trained. The walks are circular and are lined with tree roses.



Standard Rose in Mrs. Frothingham's Garden

Pleached alley on the Shattuck Estate

Mrs. Frederick C. Shattuck's Garden

The Brookline garden of Mrs. Frederick C. Shattuck, wife of Dr. Shattuck, who was awarded a silver medal, is one of the most historic gardens in Greater Boston. It is partially surrounded by a very high brick wall, and from its general appearance might well be located in England. It contains one of the very few pleached alleys to be found in America.

Col. Thomas H. Perkins bought the estate in 1800, and soon built a greenhouse. The brick wall was built in 1836, and soon after five additional greenhouses were constructed. Three of these greenhouses were removed later, but the others still stand and are filled with tender plants of enormous size and great age. Among them are several rubber trees of enviable proportions.

In 1885 the place passed into the hands of Mrs. Henry Lee, after which many changes were made. It was at this time that the pleached alley was planted. This alley is 150 feet long, and is made of hornbeam, the trees being trained over iron supports and wires, although they are so thoroughly interlaced now that they would stand without any support.

On the death of Mrs. Lee in 1910, the place was taken over by Mrs. Shattuck, who with her husband, takes great pride in it and maintains it in excellent condition.

Overlooking the garden is an elevated summer house, while at the other end stands a brick pergola covered with grape vines from which one looks down a long alley lined with specimens of Boxwood. It would be hard to find another garden in the northern states containing Box of such enormous proportions, the plants standing far above the average man's head, and with hardly a blemish. Placed between them are specimen altheas which have also grown to great size.

About the grounds are many very large and noble trees which have been standing for half a century or over, and among the plants in the greenhouses are some very old roses, including Teas, Cherokees and Banksianas. For years a feature of the place was a magnificent Himalayan rhododendron but this plant died about 1915. It is believed that Col. Perkins

planted many of the ornamental and fruit trees on the place soon after he moved to Brookline early in the last century. The success with which they have been grown is due largely to the natural shelter which the estate enjoys and also to the protection and warmth supplied by the high brick wall.

Winners in Poster Contest

In preparation for the 1927 Spring Show, prizes were offered for the best posters, and the winners were as follows:

First, Beulah Locke Sherburne, Lexington.

Second, Elinor Wockstrom, 126 Massachusetts Ave., Boston; Scott Carbee School.

Third, Gertrude Koch, 37 Gorham Ave., Brookline.

Fourth, Christine Lane, School of the Museum of Fine Arts.

Fifth, Helen Travis, 126 Massachusetts Ave., Boston; Scott Carbee School.

Sixth, Nell Guild Moses, 148 Lexington Ave., Cambridge.

It was decided to use the first prize poster in connection with the 1928 Spring Exhibition.

Path in Mrs. Isaac Sprague's Rock Garden

Mrs. Sprague's Rock Garden

Mrs. Isaac Sprague's rock garden at Wellesley Hills, Mass., which has been given a silver medal by the Massachusetts Horticultural Society, is among the most interesting in the state. The history of this garden may be best expressed by the owner's terse statement—"It just grew." Without any formal plan in mind, it was begun some 18 years ago in a very modest way, the owner merely taking a few yards of sunny slope and planting the seeds of some favorite alpine flowers. The location proved favorable, the plants thrived (most of them), the area was gradually enlarged, new plants were secured, either as gifts from friends or transplanted from New Hampshire woods or raised from seed purchased in Europe, and eventually the garden assumed its present shape.

It lies on the southern slope of a knoll, the summit of which is occupied by the family residence, and forms a very intimate feature of the home life. A few steps from the front porch, and you are in the garden. The heart of this knoll, by the way, is a ledge of grey schistose rock which disintegrates quite readily into small angular particles.

Mrs. Sprague discovered quite early that an important element in her success with rock-loving plants was this disintegrated rock, for it formed an ideal substratum for the garden, giving perfect drainage, and the roots of the growing plants easily find their way down through its interstices. The surface of the slope, naturally, had to be prepared for the special purposes of a rock garden, and numerous weathered boulders, "roundheads," and angular rocks of different sorts were gathered from the farm and placed in suitable positions. This task was so happily accomplished that a visitor from a well-known school of landscape architecture recently congratulated Mrs. Sprague on her good fortune in having her rock garden made for her by Nature itself.

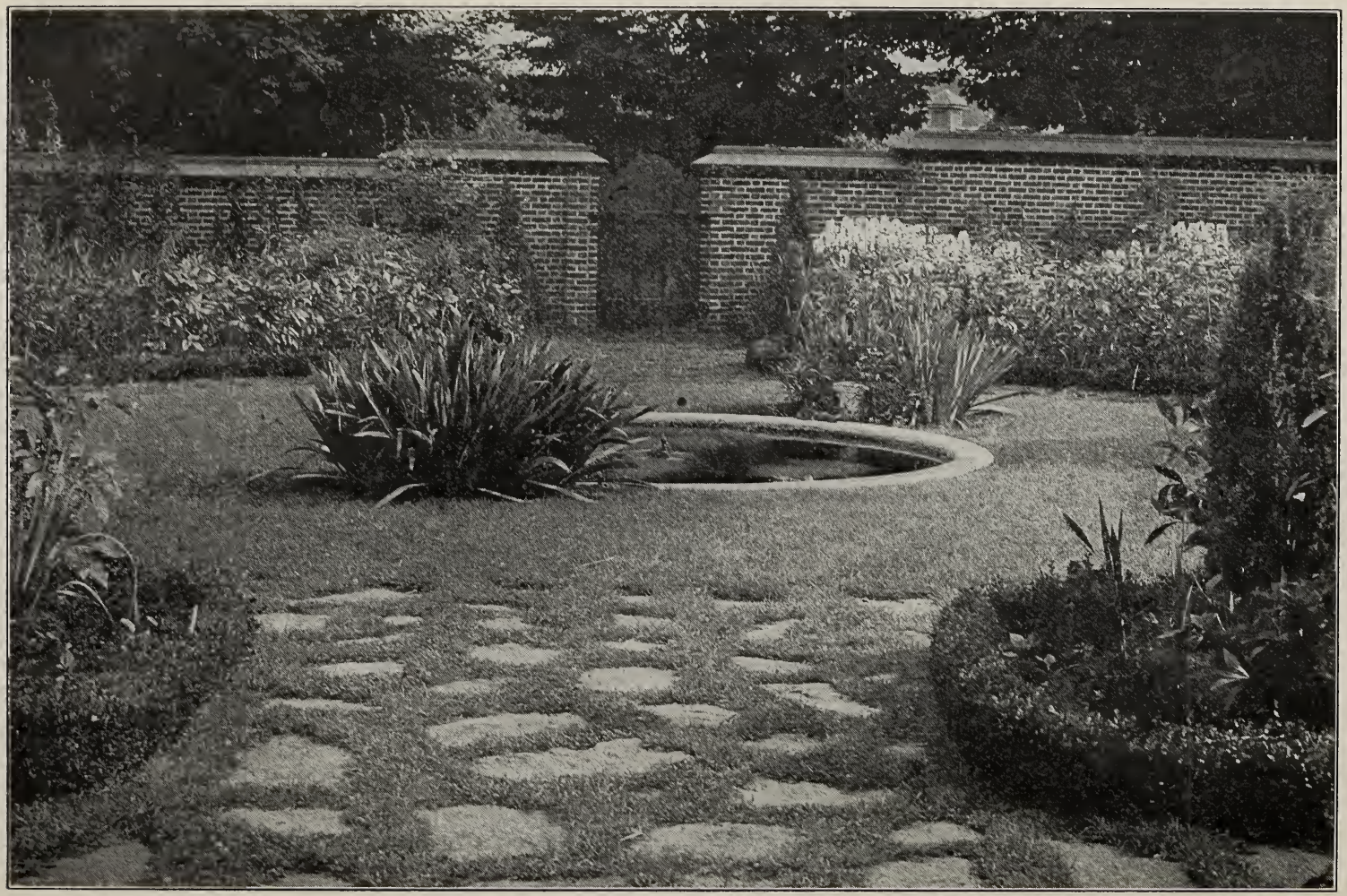
No limestone was found, however, and in the case of plants which have a craving for lime this has to be worked into the soil. A valuable addition was made to the natural soil of the slope from the horse corral, where a large quantity of peat had been placed and trodden under the horses' feet until it became as fine as dust and also acquired a considerable ele-

Mrs. Sprague's Garden Looking Toward the House

ment of stable manure. Of course, also, a needful amount of sand and grit was provided for those alpines which object to being fed too highly. In the winter season the garden lies under a covering of fallen leaves held down by small interlacing pine boughs.

With respect to the plant material in the garden, Mrs. Sprague secures her seeds and bulbs from a great variety of sources—England, France, the Swiss Alps, the Tyrol, California, Colorado, and the Southern Appalachians. Last summer she had over 360 different species of rock plants under cultivation, including many anemones, saxifrages, columbines, campanulas, wild tulips, sedums, violas, narcissus, and primulas, with representative plants of meconopsis, daphne, eidelweiss, adonis, iris, etc. Her collection of primroses in particularly fine, especially the Jekyll hybrids, and when in full bloom the sight is worth going many miles to see. Among the native American plants she has been notably fortunate with galax, shortia and Iris cristata from the South, camassia, erythronium species, and pentstemons from California, lewisias, dodecatheons, and polemoniums from Colorado, nierembergia from South America, besides various familiar New England plants like bloodroot, hepatica, arbutus, trilliums, cardinal flower, etc. Many of the plants seed themselves, and a few (even those of foreign importation) actually run riot. Myosotis alpestris, for example, is almost a pest.

It should be said that the real secret of all this successful and charming display of rock-loving plants lies in the devotion and personal affection of the owner. The garden is not a show-place; neither is it a gathering of merely botanical specimens. It is the product of a great deal of thought and study and effort on the part of the owner, who has had from the beginning a genuine love for the flowers themselves.



Enclosed Garden of Mrs. J. C. Wardwell

The Wardwell Garden

The garden of Mrs. J. Otis Wardwell of Haverhill, whose garden was given a silver medal in 1927, is about one hundred feet square and is enclosed by a brick wall. It is the type of garden frequently seen in the small cities and towns of England. It is formal in design but delightfully informal in feeling and its enclosure gives it privacy, making it a veritable out-door living-room. To enter the garden from the house one descends from a breakfast-room, the tiled floor of which is a few feet above the level of the ground. In the center of the garden is a circular pool. On axis with it and the breakfast room at the further end of the garden, there is a tiled roof tea-house on a brick terrace. It is the type of garden that a visitor would say reflects the individual care and good taste of its owner. A pergola of brick columns and rough hewn wood, at one side, leads to a brick seat incorporated with the wall. Over this seat, in a niche in the wall, is a carved wooden figure of St. Francis. The garden was built about 15 years ago but already time has given it a mellowness that makes it seem much older, and you recall the sentiment expressed by Cardinal Newman when he said: "By a garden is meant mystically, a place of spiritual repose, stillness, peace, refreshment and delight." The garden was designed by Loring Underwood, landscape architect, of Boston.

A View in Mrs. Churchill's Garden

The Churchill Garden

Formerly there was a large meadow in Amherst, Mass., with a hedge 500 feet long, of tall hemlocks and spruces on the east, and in the meadow a great oak and a century-old maple. Old apple trees were close to the house, another house and barn were at the west, and all the land sloped deeply to a wooded brook.

In 1907 Olmstead Brothers transformed this into a handsome estate, and this became the home of the late Congressman George B. Churchill and Mrs. Churchill. Now it has been awarded the Massachusetts Horticultural Society's garden certificate. The estate had been called "The Dell," from its ravine and brook. The landscape architects graded the meadow to a natural slope, cutting most of the orchard, but leaving three trees as beautiful as choicer varieties, as their branches hang to the ground.

Above this sloping lawn, stepping-stones lead from the house terrace to a winding path around the oak and the path is bordered by a hedge of intermingled mockoranges, lilacs, and deutzias. Opposite are Viburnum tomentosa and Mughopines under a hickory where Euonymus radicans is a ground cover and creeps up the tree trunk.

At the curve of the path is a heavy planting of Viburnum opulus, witch-hazel, red-buds, privets and hemlocks with an edging of violets and white foxgloves in the green, with Rhus-aromatica and yews by the oak.

As the path reaches the garden under an old cherry, a clipped hedge of privet shuts in the path between three low steps leading from two paths from the house with a green lawn between, on which stands a spreading maple. From the main path central steps lead to a crushed stone path from which three steps lead to the upper garden. Each side the central stone steps are stones banked to form long rockeries where alpine plants grow, with sedums, low perennials, scattering bulbs and ferns.

The garden is divided by crushed stone walks into three parts. In the center is a sundial planted around with peonies, white phlox and a clipped edge of myrtle . Near two seats set in recesses from the long walk, is formal yucca; the walks are

Trilliums in Mrs. Churchill's Wild Garden

edged with stone and the garden is bordered on three sides by a privet hedge.

The north section is in blue, yellow, and some white. Hugonis roses in the center bloom above pale yellow irises (flavescens), and the low, blue polemonium. At the south double arabis, white Phlox subulata, grass pinks, dicentra and heuchera (alum root) edge the borders. These borders feather into pink spiraea and then change to pink and white, canterberry bells and pyrethrum, in shades of pink, with sedum and the dicentra, a fine combination of foliage. Spring bulbs fill the garden—scillas and chionodoxas run wild. Perennials are carefully placed as to height and color and time of blooming.

Leading from outside the garden, a descending path bordered with Christmas ferns, baneberries and violets ends in a steep flight of wooden steps to the lowest path of all by the brook—a ravine added a few years ago to the three acres landscaped by Olmstead. A grove of tall locust trees makes this ravine dark and cool.

A lower garden near the long hedge of hemlocks, framed by a lilac hedge and edged by Lombardy poplars, has a paved pergola for roses.

It has been the desire of the owners to have native flowers and plants only, but a hartstongue fern lives with foamflower, forget-me-nots, bloodroot, trilliums, hepatica, lilies, and in early spring before the violets bloom everywhere, straying scillas and chionodoxas make blue the plants between.

Bearberry in trailing masses is found near by, and as a surprise in sandy soil there are birdsfoot violets.

Clematis paniculata covers the trunk of an old cherry tree near a Wilson cherry—and the clematis runs riot over the terrace coping with Euonymus alatus, pearlbush, bay, yellowroot below it.

Carnelian cherries bloom early, shrubbery bordering the fifty-foot walk from house to garden, with a thick blue edging of chionodoxas below, a joyful spring opening.

Last year Azalea arborescens and Azalea Vaseyi were placed to edge shrubbery borders near the house. Euonymus radicans covers the house on the north side above a planting of laurel, leucothoe, andromeda and maidenhair fern, and the taller royal and cinnamon ferns with jack-in-the-pulpit stray in behind a box tree eight feet tall at the welcoming door.

A Corner in the Garden of Mrs. Gertrude W. Phillips

Mrs. Gertrude W. Phillips' Garden

The garden of Mrs. Gertrude W. Phillips, 7 Sheridan Road, Swampscott, Mass., which was awarded a garden certificate in 1927, demonstrates what can be done to beautify a difficult situation and change a "back yard" into a restful garden. Four years ago this bit of land 50′ x 50′ was added to the house-lot making it now about 120 feet deep. A large elm (one limb of which extends 50 feet over this garden) outcroppings of red ledge (which project about 33 feet from left boundary line) and poor soil covered with witch grass were the assets and liabilities with which Mrs. Phillips started her garden, which she designed and developed alone.

The present entrance is through this original garden; one passes borders informally planted at the sides of the walk which leads one to a formal lawn with borders at the right and rock gardens and a ledge at the left. The ledge is about five feet high at the back and the effect is heightened by roses climbing over the wire fence on the boundary line. This little hill is reached by two sets of stone steps, with alpines growing between the stones, and on the hill are more rocks, little evergreens and odd plants. Sempervivums, thyme, polemoniums sedums, etc., are tucked into the cracks in the rocks and in odd places. This is not *over*-done but made to look natural. Named varieties of tulips are planted through the whole garden in small clumps. These are labeled true to name and variety, as are also the many perennials found here. There is also a collection of about 125 varieties of the better Irises from the early pumilas to the late blooming Ambassadeur among the bearded irises and a few Siberian and Japanese kinds. There are astilbes, heucheras, glorious delphiniums, lilies, veronicas and many other perennials which bloom in succession until frost claims the last Michaelmas Daisies and chrysanthemums.

Visitors speak enthusiastically of the arrangement of the garden as regards the color and the forms of the plants and succession of bloom, describing it as glorious in spring, restful in summer and an inspiration and source of information at all times.

The Lure of Gardening as Expressed by Its Literature*

Russell Conwell in his lecture "Acres of Diamonds" emphasized most forcefully the old truth that a man may be in possession of great riches but if he is unaware of the fact they are to him as though they were not.

Our libraries are storehouses of untold treasures of knowledge, romance, wit and instruction, but if we do not know of their existence nor how to use them their contents are to us sealed and valueless. They might as well be like the beautiful editions a rich man bought to fill his library, cut them in two to fit his narrow shelves, locked the doors of his book-cases and threw away the key.

Since God planted the Garden of Eden (Garden of delight and pleasure) with all manner of trees, gardens and trees have continued to be a delight and pleasure and one of the absorbing interests of mankind. Rich and poor alike have revelled in their wonder and beauties, and through them have come close to nature and to nature's God. Many gardens have been famous in history such as the Hanging Gardens of Babylon constructed by Nebuchadnezzar (604-561 B. C.) which were one of the seven wonders of the world, the garden of Solomon, celebrated in song (993-953 B. C.) and that of Theophrastus (about 300 B. C.). With the love of gardens and gardening and of the noblest of all growing plants, the tree, has grown up an immense literature.

So far as possible this literature has been gathered into two important libraries in the City of Boston, each pre-eminent in its line, the Library of the Massachusetts Horticultural Society, "believed to be the oldest, most complete and best organized strictly horticultural library in the world," and the Arnold Arboretum Library, unique in its field, the largest library in the world devoted to woody plants. These two libraries may be considered as sister libraries, working together for the accumulation of valuable material. While many of the books in one library are duplicated in the other

*A lecture by Miss Ethelyn M. Tucker, Librarian of the Arnold Arboretum, before the Massachusetts Horticultural Society, April 1, 1927.

the guiding principle is that the Massachusetts Horticultural Society shall acquire all books on gardening (horticulture), and the Arnold Arboretum all books on dendrology. The libraries thus complement one another and make for a more complete collection along two distinct lines than would otherwise have been possible.

For a working library all modern writings are essential and many old ones which form the basis of the present knowledge of botany and gardening in their various branches, these the libraries have endeavored to bring together.

Periodicals form one of the most important divisions of both libraries but the oldest American horticultural magazine known to me, *The Floral Magazine and Botanical Repository* published by D. and C. Landreth in Philadelphia, 1832-34, is, curiously enough, so far as I know not to be found in the Horticultural Library but it is in the Library of the Arnold Arboretum. It comprises only five parts containing 31 finely colored plates, an advanced work for that period. The advertisement modestly states that "Science has of late made rapid strides, and they who presume to court the public gaze, are expected to present something worthy of the age. It is, therefore, not without some trepidation, that the publishers venture to lay its pages open for inspection. And lest expectations should have been created that may not be realized, they beg leave to state, that pretensions are not made to more than a very moderate share of scientific knowledge; and that the present publication is rather intended to direct the mind to the beauty and importance of the vegetable kingdom, than to solve abstruse problems, or to decide on speculative theories in botany."

The *Gardeners' Monthly and Horticultural Advertiser,* of which Thomas Meehan was sole editor during the thirty years of its existence, is a magazine rich in valuable horticultural information and advice. This set is in both the Horticultural Library and the Library of the Arnold Arboretum. One of the most conscientious and accomplished of American horticulturists, Mr. Meehan, had also a keen sense of humor as shown in his note: "The description of flowers when associated with the names they bear often suggest the ludicrous. In looking over the lists of our florists, for instance, we find

'Lord Derby' described as having an orange crimson mouth, 'Lord Raglan' has 'a fine eye, but rather loose habits'; 'Earl of Shaftesbury, a fine flower,' but 'shows the whites of the eyes'; 'Princess Matilda' has a rosy blush, and is very free; 'Mrs. Church has a great constancy, and may be depended on'; and so on through the catalogue."

A complete file of the *Gardeners' Magazine,* London 1826-43, is in both the Horticultural Library and the Aboretum Library, appearing first in the Horticultural Library's catalogue of 1867.

Of extraordinary record is Curtis' *Botanical Magazine,* started in 1787, which through its 139 years has enjoyed uninterrupted success. It has unerringly reflected the changes in fashions and faithfully portrayed the forms and colors of plants, almost without exception of those under cultivation. It might well be called the plants' Hall of Fame. In volume 1 of the Arboretum copy is a letter from Jacob Bigelow under date of Jan. 1, 1861, presenting to Francis Parkman the first 53 volumes. In it he says "The work was begun seventy years ago when the art of paper making was not so good as it is now. The work is now out of print."

Humphrey Marshall's "Arbustrum (sic) americanum," 1785, the first book on American trees by an American, Parkinson's "Paradisi in Sole," (a play upon the author's name which may be translated "Of park-in-sun"), 1629, Fuch's "De historia stirpium," 1542, rare and valuable for its wood engravings which were many times reproduced in the works of later authors, and "Ortus sanitatis" (Garden of health) 1517, are among the many works to be found in both libraries.

The study of botany and horticulture began with the search for remedies for man's ills so that the early herbals deal with plants not as botanical treatises but for their value as medicine, and gardening books with the cultivation of medicinal plants.

In the preface of "Gart der gesuntheit" (the German Ortus sanitatis) 1485, we find a quaint reference to the virtues of plants in restoring lost health or temperament: "Many a time and oft have I contemplated inwardly the wondrous works of the Creator of the universe: how in the beginning He formed the heavens and adorned them with goodly, shining stars, to

which He gave power and might to influence everything under heaven. Also how He afterwards formed the four elements: fire, hot and dry—air, hot and moist—water, cold and moist—earth, dry and cold—and gave to each a nature of its own; and how after this the same Great Master of Nature made and formed herbs of many sorts and animals of all kinds, and last of all Man, the noblest of all created things. . . . It is also to be noted that the four natures in question are also mixed and blended in the human body in a measure and temperament suitable to the life and nature of man. While man keeps within this measure, proportion or temperament, he is strong and healthy, but as soon as he steps or falls beyond the temperament or measure of the four natures he falls of necessity into sickness, and draws nigh unto death. . . . While considering these matters, I also remember how the Creator of Nature, Who has placed us amid such dangers, has mercifully provided us with a remedy, that is with all kinds of herbs, animals and other created things to which He has given power and might to restore, produce, give and temper the four natures mentioned above. One is heating, another is cooling, each after the degree of its nature and complexion."

The chief interest in these books centres in their rarity, beauty or curiosity and the pursuit of them is a fascinating occupation. By the magic of Aladdin's lamp we may be transported back through the centuries and look in imagination upon the monks in their dusty cells, by the aid of a dim light working laboriously over their parchments, those precious manuscripts which were the originals of our earliest printed books. With infinite care each letter is made, and the beautiful colors, blue, red, purple, green and gold laid on the illuminated initials so prized by us to-day. One book perhaps the work of a life time. What we have gained in numbers to-day we have lost in artistic beauty and the very human touch. Mrs. Agnes Arber in her "Herbals, their origin and evolulution," and Eleanour Sinclair Rohde in "The old english herbals" weave into delightful story form the history of these books and through them of the history of botany and of gardening.

"As late as the 16th century plants were looked upon purely

from a utilitarian point of view not only by the masses but by very many professed scholars." Fuchs' indignation at the ignorance of herbs displayed even by medical men gives rise to his outburst on the subject in the preface to his "De historia stirpium." "But, by Immortal God, is it to be wondered at that kings and princes do not at all regard the pursuit of the investigation of plants, when even the physicians of our time so shrink from it that it is scarcely possible to find one among a hundred who has an accurate knowledge of even so many as a few plants?" Much mysticism is mingled with the material use of herbs and we may believe that quack physicians flourished even at that early date. If not beauty parlors at least beauty receipts were sought and given. "For sunburn boil in butter tender ivy twigs, smear therewith." "That all the body may be of a clean and glad and bright hue, take oil and dregs of old wine equally much, put them into a mortar, mingle well together and smear the body with this in the sun." Two prescriptions are given for hair which is too thick—"In order that the hair may not wax, take emmets' eggs, rub them up, smudge on the place, never will hair come up there." Again, "If hair be too thick, take a swallow, burn it to ashes under a tile and have the ashes shed on." "For mistiness of eyes, many men least their eyes should suffer the disease, look into cold water and then are able to see far."

"The analogy existing between the vegetable and animal worlds, and the resemblances between human and tree life have been observed from the most remote periods," and have given rise to the doctrine of signatures, brought to its highest development by the Swiss alchemist Bombastus Paracelsus (1493-1541). This doctrine of signatures was based on the belief that certain plants would cure certain parts of the human body which they resembled, as, a leaf resembling a liver gave indication that it was a cure for diseases of the liver, one resembling the heart a cure for diseases of the heart, etc. It took note also of color, as yellow flowers for jaundice, and many names of plants originated from this theory, such as kidneywort, mandrake, scorpion-grass, and others. "In the middle ages, the old belief in trees possessing intelligence was utilized by the monks in many mediaeval legends, wherein trees are represented as bending their boughs

and offering their fruits to the Virgin and the Divine Infant. So, again during the flight of the Holy Family into Egypt, trees are said to have opened and concealed the fugitives from Herod's brutal soldiery. Certain trees (notably the aspen) are reputed to have been accursed and to have shuddered and trembled ever after on account of the connection with the tragedy of Calvary." Even in our day trees are clothed with a sort of personality. "Ruskin saw trees as pilgrims, hiding from winds, reaching to sunshine, crowding to drink at the streamside, climbing to heavenward ridges, opening in dance round mossy knolls, or gathering to rest in the fields." So. books of tree lore with their curious legends of by-gone-times are found on our library shelves.

To an early magazine, the *New England Farmer,* established in Boston in 1822 and the first journal to devote any important extent of its space to horticultural matters, the Massachusetts Horticultural Society in large part owes its birth. The first editor of this magazine was Thomas G. Fessenden, author of the *New American Gardener.* A previous magazine, the *Massachusetts Agricultural Repository,* started in 1793, added a horticultural department in 1821, but it was the organ of a society rather than a journal in our present understanding of the word.

With the foundation of the Society in 1829 a standing committee on the library was appointed, and the library was begun with the object of educating the gardener and raising the standard of gardening in Massachusetts. The first books placed in the library were the gift of one of the founders of the Society, Robert Manning, and included Forsyth's "Treatise on culture and management of fruit trees," "Clergyman's recreation" by John Lawrence, and "Vinetum britannicum" by J. Worlidge. In 1831 when the Society was but two years old a catalogue of its Library was printed in the *New England Farmer,* (August 10) giving 112 titles (190 volumes) including Michaux's "North American sylva," *New England Farmer,* Repton's "Sketches and hints on landscape gardening," *Transactions of the London Horticultural Society,* Ventenat's "Description des plantes nouvelles," seven works by J. G. Loudon, Abercrombie's "Practical gardener's companion," *Annales de la Société d'horticulture de Paris,* Linnaeus' "System of na-

ture," translated by William Turton, and Evelyn's "Sylva." In January, 1854, a catalogue of 33 pages, 24° in size was separately published giving the titles of 414 volumes, including such important periodicals as Hovey's *Magazine of Horticulture* (1835-1853), and Paxton's *Magazine of Botany* (1834-'49); an interesting feature in volumes 1 and 2 of the *Magazine of Horticulture,* published under the title *The American gardener's magazine, and register of useful discoveries and improvements in horticulture and rural affairs* is the inscription "Presented by C. M. Hovey," its author.

Another catalogue followed in 1867 with 1,290 titles, and one in 1873, of 155 pages, 8° in size, after which none was issued until the very fine 4° catalogue arranged in two parts, comprising authors and subjects, published 1918-1920, which shows its collection of American horticultural books to be unsurpassed.

Early the society merged its original aim into the larger one of a model horticultural library for present and for future generations. With this new ambition the collecting of books became an end in itself and many of the old gardening books began to find their way to its shelves. These include: the "Hortus Floridus," 1614, which is described as containing some of the best copper plate figures of plants ever produced, and is the work of Crispin Du Pas, a member of a famous family of engravers; Gerard's "Herball," 1633, the most famous of all the English herbals, the first edition published in 1597 is in the Library of the Arboretum ("Americans who have the proud distinction of being of Royal Indian descent may be interested to know that a copy of this Herbal in Oxford has been identified as having belonged to Dorothy Rolfe, the mother-in-law of the Princess Pocahontas"); Mizaldo, "Historia hortensium," 1676; Mattioli's "Commentarii," 1554; and Beale's "Herefordshire orchards," 1724. The Library possesses also a copy of the rare original issue of the "Nouveau Du Hamel," treatise on trees and shrubs, published in 83 parts from 1800 to 1819.

During its nearly 100 years of slow yet steady growth the Society's interest has gradually inclined from the strictly utilitarian fruits and vegetables of our orchards and kitchen gardens to the beauty satisfying flowers of our gardens of

pleasure. Such books as the "Roses" and the "Lilies" of Redouté, an eminent French painter of flowers, Elwes' "Lilium," Bateman's "Orchidaceae of Mexico and Guatemala," Wilmott's "Roses," and Walcott's "North American wild flowers" with their beautiful colored plates, and Wilson's "Lilies of eastern Asia," and "Aristocrats of the garden" all bear eloquent testimony to this new interest.

In one of our public libraries recently a small boy approached an assistant and asked for a book on "Salt-Water-Alley." The assistant, thoroughly puzzled, sent him to another room with his strange request, there he was equally unsuccessful and returned to the first assistant. "What is the book about?" she asked. "About the man that threw down his coat for the queen to walk on," was the reply. Sir Walter Raleigh, to be sure! Our horticultural libraries may not be confronted by requests so amusing, but they nevertheless receive those equally perplexing, a test of the imagination and of quick thought. Some of these Miss Manks has indicated in her very helpful article "The New Library Service" in the *Yearbook* of the Society for 1926, where she has also given a list of the books received during the year 1925, and the periodicals currently received, numbering 150, a wide interest in landscape gardening manifest in both groups.

The Society's magazine *Horticulture* is an amateurs' paper and probably the only amateur paper in America devoted entirely to gardening.

A unique department of the Library of which Mr. Rich is justly proud and one probably nowhere duplicated is its collection of seed and nursery trade lists, numbering 16,916; of these 11,820 represent firms in the United States on which the Society has specialized, while the remaining 5,096 are from Canada, Chili, Costa Rica, Asia, Africa, Australasia and nearly all the countries of Europe.

In America botanic gardens have been in existence since 1728 when John Bartram founded his botanic garden in Philadelphia, and about 1737 Robert Prince established at Flushing, L. I., the Prince nursery, which was perhaps the first large commercial nursery in America. Prince was one of a community of French Huguenots who in 1730 settled on the north shore of Long Island bringing with them many cuttings

and seeds of fruit trees together with the love of horticulture that brought them success in the New World. The earliest printed catalogues issued by the Prince nursery are in the Library of the New York agricultural experiment station at Geneva. They are broadsides printed in New York, the first reads: "To be sosd (sic), by William Prince at Flushing-Landing 1771," and offers among other plants "English Cherries, Plumbs, Nectarines, Rasberries, Evergreen Trees and Shrubs, Timber Trees and Flowering Shrubs." The second was issued in 1790, with the addition of Roses. Photostat copies of these lists together with a copy of the earliest issued in book form, 1820, are in possession of the Library of the Arnold Arboretum. A still earlier list is in the Library of the Massachusetts Horticultural Society, it is that of George Spriggs, gardener to John Hancock, a facsimile copy of the *Boston Gazette and County Journal,* March 12, 1770, which offers a large assortment of English fruit trees. "Garden seeds to be sold by Edmund Heard in Lancaster," is a facsimile copy from the *Massachusetts Spy or Worcester Gazette,* April 3, 1783.

A small manuscript English catalogue of four leaves unsigned and undated but apparently between 1700 and 1800 naively states "Here follows a catalogue of divers sorts of fruits which I had of my very loving friend Captain Garlle dwelling at the Great Nursery between Spittle-fields and White Chappel, a very eminent and ingenious nurseryman who can furnish any that desireth with any of the sorts hereafter mentioned."

The earliest printed trade catalogue in the Library is about 1823 "A catalogue of fruit trees for sale by Daniel Smith at Burlington, in the state of New Jersey, listing apples at 18¾c, Peaches 12½c, Pears 25c."

In a supplement to the *New England Farmer*, vol. vi, 1828 is a "Periodical catalogue of fruit and ornamental trees and shrubs, green-house plants, etc., cultivated and for sale at the Horticultural and Botanic Garden of Brooklyn, corner of the Jamaica and Flat-bush roads, about 2 miles from the city of New York, Andrew Parmentier, Proprietor. Apples 37½c each. Those marked C are cider fruit, those marked B are the best table fruit."

Two hundred and forty-two in number the apples are arranged by the month in which they are best for eating, be-

ginning with Red Juneating, and ending with Menemonisten, February to May. Pears are priced at 37½c, Cherries at 50c.

David Landreth the elder, born in England in 1752, established in Philadelphia in 1784 the oldest seed-house in America, this is now in the hands of the fourth generation. Of its catalogues the library has thirty-three dating from 1828 to 1910, recent catalogues being issued only for wholesale dealers.

Muriel Stuart in her charming little poem "The Seed Shop" thrills our imagination with the beauty and majesty imprisoned in the tiny seeds.

"Here in a quiet and a dusty room they lie,
Faded as crumpled stone or shifting sand,
Forlorn as ashes, shriveled, scentless, dry—
Meadows and gardens running through my hand.

"Here in their safe and simple house of death,
Sealed in their shells a million roses leap;
Here I can blow a garden with my breath;
And in my hand a forest lies asleep."

In the twelfth book of his "Historie of the World," printed in the 16th century, Pliny enters at large on the subject of trees and forests and extols them as the most valuable presents conferred by nature upon mankind. This feeling was shared by the trustees of a fund under the will of James Arnold of New Bedford who in 1869 left a sum of money to be used for the "promotion of agricultural or horticultural improvements, or other philosophical or philanthropic purposes," and in 1872 when the Massachusetts Horticultural Society was 43 years old an indenture was signed by the Arnold trustees and by the President and Fellows of Harvard College which brought into being the Arnold Arboretum, whose purpose was to grow every woody plant which would support this climate. In 1873 Professor Sargent was appointed its Director. Unlike the library of the Massachusetts Horticultural Society the Library of the Arboretum from its beginning, like Topsey, "jes' growed." Without thought of building up a great library, Professor Sargent (to use his words) bought for "his own use a few books needed for the arrangement of the future Arboretum." Later when it "was deter-

mined to prepare at the Arboretum an account of the trees of North America (his "Silva"), works on dendrology and descriptive botany essential to the production of that work were obtained by him."

In 1892 the number of volumes had increased to six thousand and Professor Sargent presented them to the University. The joy of the real collector began to make itself felt and with the aid of important gifts Professor Sargent continued to add to the Library, until it now numbers more than 37,000 bound volumes, and in addition to its value as a reference library it is a treasure house, rich in old and rare works. Essentially a dendrological library, it embraces many allied and overlapping subjects, including a large group of books of travel, containing important or interesting articles on, or lists of, woody plants, or bearing upon the countries visited by the Arboretum's emissaries.

Three hundred and fifty periodicals are currently received, the *Journal of the Arnold Arboretum* as a medium of exchange bringing an interesting number from gardens and institutions in nearly every country of the world.

Among its rarest books are the "Viridarium Cliffortianum" of Linnaeus, believed to be the only copy in the United States since the loss of a copy in the San Francisco earthquake of 1906, "Herbarium" of Apuleius Platonicus, the only copy in this country, "Ortuli" and "De cultur hortorum," of Columella of which no other copies have been reported in this country, "Ortus sanitatis," "Gart der gesundheit," "De viribus herbarum" of Macer Floridus, and two editions of Conrad von Megenberg's "Buch der natur." The 1475 edition of "Das buch der natur" valued at $4,000 is the gift of Mr. J. P. Morgan, the only other copy in America being in his own library, and the 1478 edition, the gift of Mrs. J. M. Sears, is the only copy in America. Other rare books are: Jacquin's "Selectarum stirpium americanum historia," cir. 1780, of which there were only eighteen copies issued, and at the time the Arboretum copy was obtained it was the only one in this country; there are now two other copies, one in the Library of the New York Botanical Garden and one in the Congressional Library in Washington; Captain Thomas Brown's Illustrations of the American ornithology of Alexander Wilson and

C. L. Bonaparte, folio edition, published in London in 1835, of which only thirteen copies are known to exist, eight being in the United States.

Of special interest also are Crescentius' "Opus ruralium" (cir. 1492) the first book on agriculture; Cornut's "Canadensium plantarum" 1635, only 15 years after the landing of the Pilgrim Fathers, and the first book which describes and figures American plants; Wangenheim's "Description of some North American trees and shrubs," 1871, the first book on American trees by a German; Belon's "Conifers," 1553, the first book on conifers; Boym's "Flora sinensis," 1556, the first European book on Chinese botany; Rŏssig's "Die rosen," from the Castlecraig Library in England; Chinese paintings of flowers on rice paper giving a marvellous velvety texture, supposed to have been done 100 years ago; a copy of the beautiful subscription edition of Audubon's "Birds of America," subscribed for by Professor Sargent's father, Ignatius Sargent; and the two folios of Dioscorides' "Codex" in heavy board covers reproducing in facsimile the pages and plates of the famous manuscript prepared in 512 A. D. for Anicia Juliana, daughter of the Emperor of the Eastern Empire, which manuscript is now preserved in the Hofbibliothek at Vienna. The original of the "Codex" is the oldest known manuscript of a botanical work written in Greek on materia medica in the first century after Christ and describes or names more than five hundred plants. For sixteen centuries this book was considered the highest authority, and became the basis of modern treatises on botany, and from it this science derives nearly all its nomenclature. A curious little book worthy a moment of our attention is "New England's rarities discovered," by John Josselyn, Gentleman, published in London, 1672, just fifty years after the landing of the Pilgrim Fathers. It has the peculiar interest of containing the first published lists of English plants that would thrive in America, also lists of plants found growing indigenously with their uses by the Indians. It is dedicated to his friend Samuel Fortrey and acknowledges his assistance in making the eight years' tour of America. Tucked away in a corner of the Library, inconspicuous in their brown leather backs, are eight volumes boasting no number of years nor

rarity of contents, yet full of romance, warmth of affection, and esteem and pride in their conceit that not again in any age nor in any library shall their counterpart be found. They are the volumes of Elwes' and Henry's "Trees of Great Britain and Ireland." In the first volume we read in manuscript, "To Charles Sprague Sargent, Director of the Arnold Arboretum. These volumes are offered by a few friends in Great Britain and Ireland, in grateful recognition of his scientific and practical works whereby their knowledge has been enlarged, their woodlands enriched, and their gardens embellished." Following are the signatures of the twenty-nine friends. Each volume is bound in a different sort of wood from a characteristic British tree, and each wood used has its little touch of sentiment. As in: Vol. i "Beech. This wood was used in the foundation of Winchester Cathedral in the 13th or 14th century, and was taken out when repairs were being made some years ago; it was found to be sound, though the oak in the same part of the foundations was decayed." Another: "Populous canescens, from one of the trees admired by Prof. Sargent at Colesborne."—a third: "Lucombe Oak, from one of the original trees planted by Lucombe, at the entrance to the old Exeter nursery."

Possessing in equal degree the tender human touch are the five modest crash bound volumes of Mr. Faxon's original drawings made for the "Silva," during the twenty years from its inception to its completion in 1902. Exquisite, marvellous, perfect in detail, well they merit Professor Sargent's words of praise, "In his drawings Faxon united accuracy with graceful composition of outline . . . among the very few who in all time have excelled in the art of botanical draftsmanship (his) position is secure and his name will live with those of the great masters of his art as long as plants are studied."

From 1888 to 1897 Professor Sargent edited, at the Arboretum, *Garden and forest, a journal of horticulture, landscape gardening and forestry,* which "played a large part in the development in this country of knowledge, enthusiasm and good taste in regard to the outdoor arts." Since its discontinuance, due in large part to the death of its managing editor, "its reputation has increased rather than diminished."

A most valued adjunct to the books is the collection of more

than 12,000 photographs, telling in picture the stories of trees, gardens, and countries, together with portraits of the men who have interpreted nature and made our libraries possible.

All honor to him who through fifty-four years of scientific labors nevertheless gave freely of his time, thought and means to building up so complete and balanced a library, worthy to stand by the side of his Herculean scientific tasks as a monument to a great and wise man.

In closing let me turn again to *The Floral Magazine and Botanical Repository* and quote from its preface of 1832:

"There is a fascination in the works of Nature, which is as ceaseless as irresistible; and strong must that charm be, which could lead a Wilson or an Audubon through the interminable wilderness, studying the habits, properties, and plumage of the feathered race, or, with equal zeal a Bartram or a Nuttall, prying with Argus eyes into the hidden or untold treasures of the vegetable kingdom. Next to the pleasure to be derived from beholding plants and flowers, as disposed indigenously o'er hill and dale, is the gratification arising from their culture and protection. Of all amusements, the cultivation of flowers is probably the most conducive to health and an even temperament of mind; of all luxuries, flowers are the most innocent; of all embellishments, the most beautiful. Their culture yields pleasure unalloyed, and they who pursue it from innate love, are seldom otherwise than happy."

"In Eastern lands they talk in flowers,
And tell in a garland their loves and cares,
Each blossom that blooms in their garden bowers,
On its leaves a mystic language bears."

Garden Clubs and Societies of Massachusetts

Amherst Garden Club
President, Mrs. George Cutler, 42 Pleasant St.
Vice-President, Mrs. H. W. Doughty
Secretary, Mrs. D. Nelson Skillings

Amherst Women's Club (Garden Section)
President, Mrs. Geo. B. Churchill, (Mable F.) Spring St.
Secretary, Mrs. Brooks Drain, Fearing St.

Beverly Improvement Society
President, Mrs. Marion Swasey Royce, 24 Hale St., Beverly
Secretary, Miss Bessie A. Baker, Monument Sq., Beverly

Cape Ann Garden Club
President, Mrs. James L. Stuart, Bass Rocks, Gloucester
Secretary, Mrs. Harry H. Walker, Eastern Point, Gloucester (Winter, 390 Commonwealth Ave., Boston)

Chelmsford Garden Club
President, Miss Carrie E. Richardson, Chelmsford
Secretary, Miss Maud H. Perham, Chelmsford

Chestnut Hill Garden Club
President, James D. Colt, Suffolk Rd., Chestnut Hill
Secretary, Ernest B. Dane, 6 Beacon St., Boston

Cohasset Garden Club
President, Mrs. J. F. McElwain, 53 Chestnut St., Boston
Secretary, Mrs. W. DeFord Bigelow, 30 Gloucester St., Boston

Community Garden Club of Duxbury
President, Dr. Nathaniel W. Emerson, Duxbury
Corresponding Secretary, Mrs. Oliver D. Hogue, South Duxbury
Recording Secretary, Mr. Frederick W. Mattheis, South Duxbury

Concord Garden Club
President, Florence Taft Eaton, Concord
Secretary, Mrs. Francis B. Shepley, Concord

Cottage Garden Club of Gloucester
President, Mrs. Lida Bacon
Secretary, Mrs. Hollis Griffin, Washington St.

Country Garden Club of Swansea
President, Mrs. Harold Anthony, South Swansea
Secretary, Mrs. T. E. Sanford

Deerfield Garden Club
President, Charles Huntington Smith
Secretary, Mrs. Luanna Thorn

Duxbury Garden Club
President, Mrs. Robert C. King, 47 Francis St., Malden
(Summer, King Caesar Rd., Duxbury)
Secretary, Mrs. Sydney Harwood, 137 Marlboro St., Boston

Fitchburg Garden Club
President, Mrs. Clesson Leitch, 14 Burnap St.
Secretary, Mrs. Harold F. Morris, 46 Pacific St.
Program Committee, chairman, Mrs. Mary F. Colburn, 38 Osgood St.

Greater Lynn Garden Club
President, Mrs. Edward M. Barney, 21 Baltimore St.
Secretary, Miss Beth Brown

Groton Garden Club
President, Mrs. H. H. Richards, Farmers Row, Groton
Secretary, Mrs. C. L. Curtis, Hollis St., Groton

Hingham Garden Club
President, Francis H. Lincoln
Secretary, Mrs. Robert St. B. Boyd
Treasurer, Francis Hastings

Ipswich Garden Club
President, Mrs. George B. DeBlois, 62 Chestnut St., Boston
Treasurer, Mrs. Arthur A. Shurtleff, 66 Mount Vernon St., Boston

LAWRENCE GARDEN CLUB
President, Mrs. William J. Bradley, 89 Knox St.
Secretary, Miss Lillian M. Wainwright

LENOX GARDEN CLUB
President, Miss Georgiana W. Sargent, Lenox
Corresponding Secretary, Miss Marion S. Davies, Lenox

LITTLE GARDEN CLUB OF GREATER BOSTON
President, Mrs. Walter Brady, 11 Claremont St., E. Braintree
Secretary, Mrs. Edward Haskell, Beverly

LITTLETON GARDEN CLUB
President, Miss Alice M. Howard, Littleton
Secretary, Mrs. E. P. Sargent, Littleton

LOWELL GARDEN CLUB
President, Mrs. Thomas Nesmith
Secretary, Mrs. Wm. B. Goodwin

MARBLEHEAD GARDEN CLUB
President, Mrs. William Chisholm, 41 Chestnut St.
Secretary, Mrs. Bradshaw Langmaid, 11 Gregory St.

MARTHA'S VINEYARD GARDEN CLUB
President, Mrs. T. M. R. Meikleham, Nunnepoag, Edgartown
(Winter, 40 Hawthorne St., Cambridge)
Secretary, Miss E. W. Edwards, Edgartown, M. V.

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President, Mrs. Edwin M. Wilder, 83 Vinton St.
Secretary, Mrs. Robert L. Munson, 357 East Foster St.

MILTON GARDEN CLUB
President, Mrs. Philip L. Spaulding, Highland St.
Secretary, Mrs. Alexander H. Ladd, 381 Center St., Milton

NAHANT GARDEN CLUB
President, Mrs. Fred A. Wilson, Nahant
Secretary, Mr. Harry R. Cummings, Nahant

NEWTON GARDEN CLUB
President and Secretary, Herbert C. Fraser, 48 Eldredge St.

NEWTONVILLE GARDEN CLUB
President, Mrs. Ziegler, Walnut Street, Newtonville

NOANETT GARDEN CLUB
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Secretary, Mrs. Frances W. Bird, E. Walpole

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Secretary, Mrs. John Coolidge, 171 Commonwealth Ave., Boston

NORTH ATTLEBORO GARDEN CLUB
President, John J. Bliek
Secretary, Fred C. Paye

NORTH SHORE GARDEN CLUB OF MASSACHUSETTS
President, Mrs. Henry G. Vaughan, Sherborn
Corresponding Secretary, Mrs. Ward Thoron, The Lindens, Danvers

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Secretary, Mrs. George R. Underwood, 10 Emerson St., Peabody

RICHMOND GARDEN CLUB
President, Mrs. W. Rockwood Gibbs

SALEM GARDEN CLUB
President, Willis H. Ropes
Secretary, Mrs. Willard B. Porter

SCITUATE GARDEN CLUB
President, Mrs. William C. Reynolds, Minot
Secretary, Mrs. Henry T. Wing

SPRINGFIELD GARDEN CLUB
President, Willard A. Boyd, 102 Dartmouth St., Springfield
Recording Secretary, Mrs. Harry A. Wells, 104 Ellington St., Longmeadow
Corresponding Secretary, Mrs. Gurdon W. Gordon, 90 Dartmouth St., Springfield

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Secretary, Mrs. Lottie L. Eaton

THE CAMBRIDGE PLANT CLUB
President, Mrs. L. E. Emerson, 64 Sparks St., Cambridge
Corresponding Secretary, Miss Caroline E. Peabody, 40 Appleton St.
Recording Secretary, Miss Lucy Davis, 19 Craigie St., Cambridge

THE GARDEN CLUB OF GREATER NEW BEDFORD
President, Mrs. Etta A. Horton, 604 County St.
Corresponding Secretary, Mrs. Mary S. Perry, 490 County St.
Recording Secretary, Mrs. John T. Hanna, 116 Cottage St.

THE GARDEN CLUB OF SWAMPSCOTT
President, Miss Helen Guild, 222 Commonwealth Ave., Boston
Secretary, Mrs. Weston Lewis

THE HOLYOKE & NORTHAMPTON FLORIST'S AND GARDENER'S CLUB
President, R. S. Carey, South Hadley Falls
Secretary, H. S. Sinclair, 166 Oak St., Holyoke

WAYLAND GARDEN CLUB
President, Mrs. J. Sidney Stone
Recording Secretary, Mrs. Charles F. Richardson
Corresponding Secretary, Mrs. George W. Lewis

WORCESTER GARDEN CLUB
President, Mrs. John M. Thayer, 44 Harvard St.
Secretary, Mrs. Charles D. Wheeler, 47 West St.

Lawn Building and Seeding*

"England has the best turf in the world" is a statement that is very often heard. Then the question that follows is invariably "Why can't America have as good turf?" America can have good turf and does have good turf, but it requires more attention than the English turf.

The four main factors governing a good turf are:

1. Climate, which is uncontrollable.
2. Soil, which is partially controllable.
3. The fact that our cultivated grasses are not native, which is uncontrollable.
4. Seed selection, a very important factor and decidedly controllable.

To return to the comparison with English turf. England has ideal climate, cool and moist, with moderate extremes of temperature. Furthermore, English soil is good, the cultivated grasses are native to the continent and they have better control over the seed than we do.

Inasmuch as the climate is uncontrollable, let us consider the first controllable factor, that of soil. By soil we mean not only the top soil but the earth to a depth of at least five feet. This is divided into foundation soil, subsoil, and top soil.

The foundation is uncontrollable and therefore must be examined carefully and accepted as is. The character of the foundation determines the necessary treatment of the subsoil. Hard pan, rock ledge, gravel and sand foundations must be subsoiled differently so as to assure the desirable amount of water being retained for use during dry weather. One must bear in mind that irrigation will not offset rapid drainage.

The subsoil, that earth between the top soil and foundation, is the real governor of the water supply to the grass roots. Over an uneven foundation the subsoil should be uneven in depth. This subsoil may be any earth of good water retention properties, the problem being to create a

*A lecture by Lawrence S. Dickinson of the Massachusetts College of Agriculture, before the Massachusetts Horticultural Society, June 4, 1927.

reservoir under the lawn that will reach its saturation point simultaneously over the entire area, and evenly return to the grass roots the soil moisture by capillarity.

Sometimes it is necessary to cap a gravel strata with clay or a layer of hard coal ashes to prevent excessive drainage, and to dig a gravel well in an unusually wet spot. The subsoil and therefore the water supply can be governed, and if the funds for building the lawn are limited, the largest percentage may well be spent in the subsoil.

Top soil, usually considered as "rich black loam" need not be over four inches deep if the subsoil is properly attended to. The main purpose of this soil is to furnish the grass with plant food. Any good garden soil reasonably free from weeds is suitable.

Naturally the more humus that it contains, the better. And it should have good physical properties, not clay enough to cake, or sand enough to encourage ants and fast leaching of the valuable plant foods and applied fertilizer.

A few precautions are necessary in the preparation of the seed bed. First the subsoil should be plowed, harrowed, rolled, harrowed, rolled, regraded if necessary to eliminate hollows and humps, and again harrowed. This will assure an even settling and a uniform capillary action.

Over the subsoil the top soil should be spread if possible, not scraped or dumped and spread. The latter two methods are likely to create hard spots. If the top soil is spread, all that is needed to prepare for the seed is a careful hand raking and grading to the proper grade lines. If the top soil is scraped or dumped, it must be thoroughly harrowed before hand raking to the finished grade.

Having prepared the seed bed, the next question is seed. A house representing an investment of at least $10,000 is worthy of the best seed obtainable. In Massachusetts, Rhode Island bent seed or South German bent seed are probably the two best varieties to purchase. For excellent lawns seed mixtures, particularly the cheaper grades, are not to be considered.

The next precaution necessary is to sow plenty of seed in the right season of the year. Bents should be sown at the rate of at least 80 lbs per acre and preferably 95 lbs.

There is no doubt that fall, from September 1 to October 1, is the very best period of the year in which to seed a lawn. Weeds are at their weakest stage, or dormant, the young grass plants have time to establish themselves and furthermore develop a heavy and deep root system which spring planted grasses do not. These grass plants are ready to start before weeds think of germinating in the spring, and can compete with the weed with a large advantage to their credit.

Estimated relative values for the several factors entering into the development of a good lawn are, foundation 20%, subsoil 35%, top soil 10%, seed 15%, rate of seeding 5%, time of seeding 15%.

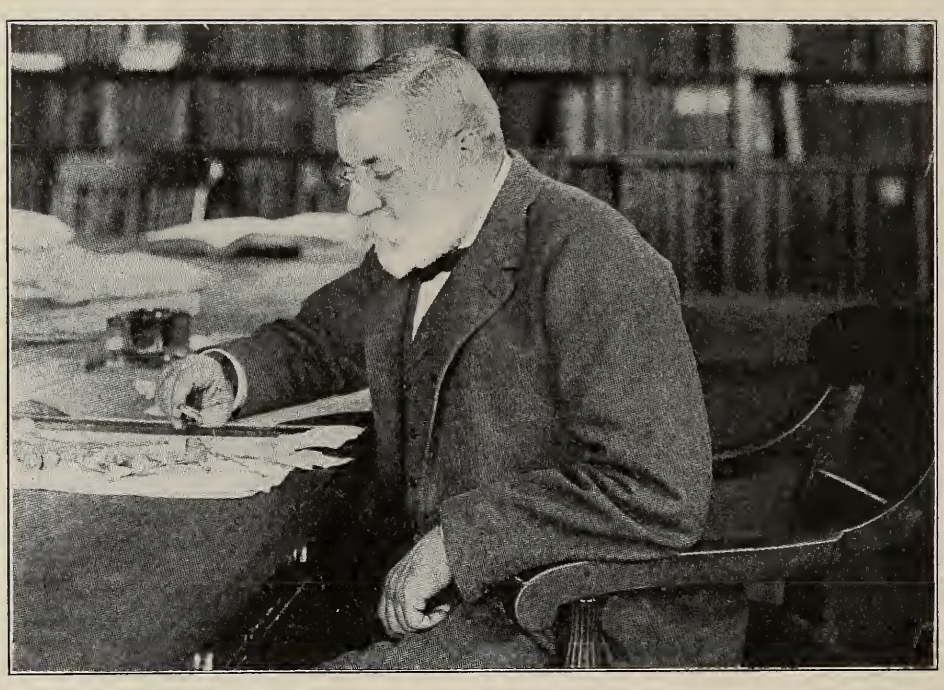
The Late Professor Charles Sprague Sargent

The Massachusetts Horticultural Society suffered a severe loss in the death of Professor Charles Sprague Sargent, Director of the Arnold Arboretum for 54 years, which occurred March 22, 1927. At the time of his death Professor Sargent was a vice-president of the Society, Chairman of the Library Committee, Chairman of the George Robert White Medal of Honor Committee and a member of several other committees. He had been a member of the Society for over 50 years, having been enrolled in 1870. Most of that time he was one of the Society's most active members, having a conspicuous part in every forward movement and being largely responsible for the development of the Library, which is now the most important horticultural library on this continent if not in the world. Professor Sargent had much to do with the construction of the present Horticultural Hall and his advice was always sought whenever any new undertaking was contemplated.

Many tributes to Professor Sargent's ability, sagacity and high character were published at the time of his death. One of the best was that which appeared in the "Outlook" for April 6, 1927 and which read as follows:

"Charles Sprague Sargent, for fifty-six years director of the Arnold Aboretum of Harvard, is dead. Some time soon a movement will be launched to erect to him a suitable monument. It will be a movement futile except in so far as it may enable those who loved him to feel that they have done something to honor the memory of a great man. His monuments are builded, numerous and enduring. The Arnold Arboretum is his monument. He took an inadequate fund, a worn-out farm, a willing spirit, and 'in a few years,' as it seemed to him, transformed them into the greatest arboretum on earth. That it is the greatest is indicated by the fact that a few years ago a Chinese came there to make an exhaustive study of the trees of China.

" 'The Silva of North America' is his monument. John Muir read it as he would have read a novel, and regretted



The Late Professor Charles Sprague Sargent

that there was not more of it. It consists of only fourteen volumes!

"Thousands of gardens in America and in Europe are his monuments. They have been made lovely by the trees and plants which he searched the world for and propagated.

"The wooded sides of the Adirondacks are his monuments. He laid the foundation of the New York State forestry work and saved the mountain woods.

"The redwood forests of the Pacific coast are his monument. His was the leading spirit in the movement which saved the giant trees.

"Glacier National Park is his monument. He made the first proposal for the setting aside of that region as a park—thirty years before it was actually set aside.

"The multiplied millions of acres of National Forests are his monument. Establishment of the National Forest policy resulted from the study of the National Academy of Science Commission, of which he was chairman. He took the leading part in inducing President Cleveland to make the first reservation of 21,000,000 acres. Later, when pressure against the policy was heavy and President McKinley was ready to turn the Forest Reserves back into the public domain, he took the leading part in inducing the Chief Executive to change his mind.

"No monument that can be erected will equal the least of these, for, as commemorating the achievements of such a man,

Marble is dust,
Cold and repellent,
And iron is rust."

Exhibitions for 1928

Grand Exhibition of Spring Flowering Plants, March 20-25
Tuesday, 3 to 10 P. M.; Wednesday, Thursday, Friday, Saturday, 10 A. M. to 10. P. M.; Sunday, 1 to 10 P. M.

Iris, Rhododendron and Azalea Exhibition, June 9-10
Saturday, 3 to 9 P. M.; Sunday, 12 M. to 9 P. M.

Peony, Rose, Strawberry and Sweet Pea Exhibition, June 22-24
Friday, 3 to 9 P. M.; Saturday, 10 A. M. to 9 P. M.; Sunday 12 M. to 9 P. M.

Gladiolus Exhibition, August 18-19.
Saturday, 3 to 9 P. M.; Sunday, 12 M to 9 P. M.

Exhibition of the Products of Children's Gardens, August 25-26
Saturday and Sunday, 1 to 6 P. M.

Dahlia Exhibition, September 8-9
Saturday, 3 to 9 P. M.; Sunday, 12 M. to 9 P. M.

Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, November 2-4
Friday, 3 to 9 P. M.; Saturday, 10 A. M. to 9 P. M.; Sunday, 12 M. to 9 P. M.

Library Accessions

New books added to the Library in the year 1927 include the following:

American Rose Society. American rose annual. 1927.
American Rose Society. Index to American rose annual, 1916-1925.
Arnold Arboretum. The Arnold Arboretum and its future. 1927.
Averill, M. The flower art of Japan. 1915.
Averill, M. Japanese flower arrangement. 1922.
Bailey, H. T. Tree folk. 1927.
Bailey, L. H. Farm and garden rule-book; 19th ed. 1923.
Beal, A. C. The gladiolus and its culture. 1927.
Bennett, A. C. Electroculture, the application of electricity to seeds in vegetable growing. 1921.
Bois, D. Les plantes alimentaires chez tous les peuples et à travers les âges. 1927.
Bose, Sir J. C. Plant autographs and their revelations. 1927.
Burbank, L. and Hall, W. The harvest of the years. 1927.
Burkhill, I. H. Illustrated guide to the Botanic Gardens, Singapore.
Burroughs, J. Locusts and wild honey. cop. 1879.
Bush-Brown, L. Flowers for every garden. 1927.
Calthrop, D. C. The diary of an eighteenth-century garden.
Cane, P. S. Modern gardens, British and foreign. 1926.
Chorlton, W. Chorlton's grape growers' guide. 1920.
Clampett, F. W. Luther Burbank. 1926.
Cloud, K. M.-P. The cultivation of shrubs. 1927.
Clute, W. N. A dictionary of American plant names; 2d ed. 1923.
Congrès national d'arboriculture fruitière commerciale. Mémoires et comptes rendus. 1925.
Correvon, H. Atlas de la flore alpine. 1901. 6v.
Correvon, H. Champs et bois fleuris; suite de fleurs des champs et des bois. 1922.
Correvon, H. Della culture delle piante alpine nelle regione seche e calde. 1904.
Correvon, H. La flore alpine; 2d ed. rev.
Correvon, H. Nos arbres dans la nature. 1920.
Correvon, H. Plantes et santé; 2d ed. 1922.
Cosgrave, J. G. Gardens: quick results with flowers and vegetables. 1925.
Cotter, Sir J. L. A simple guide to rock gardening. 1926.
Cox, E. H. M. Farrer's last journey: upper Burma 1919-20. 1926.

Curtis, J. H. Life of Campestris Ulm. 1910.
Dixon, R. and Fitch, F. E. The human side of trees. 1917.
Durand, H. My wild flower garden. 1927.
Farrer, R. On the eaves of the world. 1926. 2v.
Farrer, R. The rainbow bridge. 1926.
Faure, G. Gardens of Rome, tr. by F. Kemp. 1924.
Findlay, H. Garden making and keeping. 1926.
Freeman, E. M. The home vegetable-garden. 1922.
Fullerton, E. L. The book of the home garden. 1919.
Gallotti, J. Moorish houses and gardens of Morocco. 1925. 2v.
Giles, D. The little kitchen garden. 1926.
Gromort, G. Jardins d'Espagne. 1926.
Hallbaum, F. Der landschaftsgarten, sein entstehen und seine einfuhrung in Deutschland durch Fr. Ludwig von Skell. 1927.
Hamblin, S. F. Lists of plant types for landscape planting. 1923.
Hardenburg, E. V. Bean culture. 1927.
Harrison, I. W. Gardens all the year. 1927.
Hartmann, F. L'agriculture dans l'ancienne Égypte. 1923.
Heald, F. D. Manual of plant diseases. 1926.
Hill, A. F. The vegetation of the Penobscot Bay Region. 1923.
Hitchcock, A. S. Methods of descriptive systematic botany. 1925.
Hole, S. R. The memories of Dean Hole; 5th ed. 1893.
Hooker, Sir J. D. Life and letters of Sir Joseph Dalton Hooker, by L. Huxley. 1918. 2v.
Horticultural trade directory; 3d ed. 1927.
House and Garden's second book of gardens. 1927.
House Beautiful gardening manual. 1926.
Johnson, L. H. Foundation planting. 1927.
Junk, W. Bibliographia botanica. 1909-16. 2v.
Kelly, H. A. Some American medical botanists commemorated in our botanical nomenclature. 1914.
Kift, J. L. The woman's flower garden. 1927.
King, Mrs. F. The beginner's garden. 1927.
King, Mrs. F. The flower garden day by day. 1927.
Kirk, J. W. C. A British garden flora. 1927.
Kruger, G. Die entwicklung von blute und frucht bei der gattung Rosa.
Law, E. P. A. Hampton Court gardens, old and new. 1926.
Le Blond, E. A. F. The old gardens of Italy, how to visit them. 1926.
Leclerc, H. Les fruits de France. 1925.
Lierval, E. Culture pratique des Phlox. 1866.
Lloyd, N. Garden craftsmanship in yew and box. 1925.
Lutz, F. E. Field book of insects. 1918.

Maasz, H. Kleine und grosse gärten. 1926.
McCurdy, R. M. Garden flowers. 1926.
McLean, F. T., Clark, W. E. and Fischer, E. N. The gladiolus book. 1927.
Macself, A. J. The fruit garden. 1926.
Macself, A. J. Vegetable gardening.
Manning, J. W., comp. The plant buyers' index, 1927, general list.
Manwaring, E. W. Italian landscape in eighteenth century England. 1925.
Marie-Victorin, Fr. Esquisse systématique et écologique de la flore dendrologique d'une portion de la rive sud du Saint-Laurent aux environs de Longueuil, P. Q. 1922.
Marie-Victorin, Fr. Études floristiques sur la region du lac Saint-Jean. 1925.
Marie-Victorin, Fr. Les équisétinées de Québec. 1927.
Marie-Victorin, Fr. Les filicinées du Québec. 1923.
Marie-Victorin, Fr. Les gymnospermes du Québec. 1927.
Marie-Victorin, Fr. Sur quelques composées nouvelles, rares ou critiques du Québec oriental. 1925.
Marshall, N. L. Mosses and lichens. 1907.
Marshall, W. E. & Co. Consider the lilies. 1927.
Marzell, H. Die pflanzen im deutschen volksleben. 1925.
Mawson, T. H. The art and craft of garden making; 5th ed. rev. 1926.
McKinney, E. P. Iris in the little garden. 1927.
Mattoon, W. R. Forest trees of Connecticut. 1926.
Meisel, M. A bibliography of American natural history. 1924-26. v. 1-2.
Millais, J. G. Magnolias. 1927.
Morse, R. and Palmer, R. British weeds, their identification and control. 1925.
Muir, J. Our national parks; illus. ed. 1901.
National Rose Society (British). The enemies of the rose; new ed. 1925.
National Rose Society. Select list of roses and instructions for pruning. 1925.
National Rose Society. Rose annual. 1927.
N. Y. Public Library. Gardens and gardening; a selected list of books. 1927.
Notcutt, R. C. A handbook of flowering trees and shrubs for gardeners. 1926.
Parsons, S. Memories of Samuel Parsons; ed. by Mabel Parsons. 1926.
Pepoon, H. S. Flora of the Chicago region. 1927.

Perold, A. I. A treatise on viticulture. 1927.
Pfitzer, P. Edelgladiolen, ihre entwicklung, anzucht, pflege und verwendung. 1926.
Praeger, R. L. An account of the genus Sedum as found in cultivation. 1921.
Quear, C. L. School and home gardens. 1926.
Rehder, A. Charles Sprague Sargent. 1927.
Rehder, A. A manual of cultivated trees and shrubs hardy in North America. 1927.
Retuerta, M. G. Cultivo de frutales arbóreos y arbustivos en todos los continentes. 1925.
Robbins, W. W. Principles of plant growth: an elementary botany. 1927.
Robinson, W. The English flower garden; 14th ed. 1926.
Rockwell, F. F. The book of bulbs. 1927.
Rockwell, F. F. Gladiolus. 1927.
Rogers, J. E. Trees that every child should know. 1909.
Ross, A. B. Big crops from little gardens. 1925.
Royal Horticultural Society. Catalogue of the Lindley Library. 1927.
Royal Horticultural Society. Rules for judging; 8th ed. 1925.
Rydberg, P. A. Flora of the Rocky Mountains. 1922.
Sargent, F. L. Corn plants, their uses and ways of life. 1899.
Sargent, F. L. Lichenology for beginners. 1905.
Sargent, F. L. Plants and their uses. 1927.
Sargent, F. L. A working system of color. 1927.
Shepherd, J. C. and Jellicoe G. A. Italian gardens of the Renaissance. 1925.
Sherlock, C. C. Successful rose culture.
Smith, J. B. Economic entomology for the farmer and fruit-grower. 1906.
Spillman, W. J. Balancing the farm output. 1927.
Sudell, R. The town gardening handbook. 1927.
Tahourdin, C. B. Native orchids of Britain. 1925.
Taylor, G. C. The propagation of hardy trees and shrubs. 1927.
Thwaites, R. G., ed. Travels west of the Alleghanies. 1904.
Toumey, G. W. Seeding and planting: a manual for forestry students, foresters, [etc.] 1916.
Treat, M. Injurious insects of the farm and garden; enl. ed. 1914.
Voorhees, E. B. Fertilizers: the source, character and composition of fertilizer materials, and suggestions as to their use; 2d rev. ed. 1926.
Walcott, M. V. North American wild flowers, v. 3. 1925.
Ward, F. K. From China to Hkamti Long. 1924.

Watson, W. Cactus culture for amateurs; 4th ed.
Waugh, F. A. Book of landscape gardening; new and rev. ed. 1926.
Waugh, F. A. Formal design in landscape architecture. 1927.
Webster, A. D. Town planting. 1910.
Webster, A. D. Tree wounds and diseases. 1916.
Wheeler, W. M. Social life among the insects. 1923.
White, E. A. American orchid culture. 1927.
White, E. A. Principles of flower arrangement; 2d ed. rev. and enl. 1926.
Wickson, W. J. California garden flowers; 3d ed. 1926.
Wilder, L. B. Colour in my garden. 1927.
Wilmore, W. W. The dahlia manual; rev. ed. 1926.
Wilson, E. H. Plant hunting. 1927. 2v.
Wister, J. C. The Iris. 1927.
Wright, H. J. and Wright, W. P. Beautiful flowers and how to grow them; rev. ed. 1926.
Young, S. H. Alaska days with John Muir. 1915.

Periodicals Currently Received 1927

*Agricultural Gazette of New South Wales. Sidney.
Agricultural Index. New York.
American Bee Journal. Hamilton, Ill.
*American Botanist. Joliet, Ill.
*American Dahlia Society. Bulletin. New Haven.
*American Fern Journal. Auburndale, Mass.
American Florist. Chicago.
*American Forests and Forest Life. Washington.
*American Fruit Grower Magazine. Chicago.
*American Gladiolus Society. Official Bulletin. Rochester, N.Y.
*American Iris Society. Bulletin. Wellesley Farms, Mass.
*American Nut Journal. Rochester, N.Y.
*American Peony Society. Bulletin. Robbinsdale, Minn.
American Potato Journal. Takoma Park, D.C.
American Produce Grower. Chicago.
Am-Tel-Flo Messenger. St. Louis.
*Les Amis des Roses. Lyon, France.
*Annals of Botany. London.
*Arnold Arboretum. Bulletin of Popular Information. Boston.
*Arnold Arboretum. Journal. Boston.
*Better Delphiniums. San Raphael, Calif.
*Better Flowers. Portland, Ore.
Better Homes and Gardens. Des Moines, Iowa.
*Boyce Thompson Institute for Plant Research. Contributions. Yonkers, N.Y.
*Boyce Thompson Institute for Plant Research. Professional Papers. Yonkers, N.Y.
British Guiana. Board of Agriculture. Journal. Georgetown,
*Brooklyn Botanic Garden. Leaflets. Brooklyn, N.Y.
*Brooklyn Botanic Garden. Record. Brooklyn, N.Y.
*Bryologist. New York.
*California. Department of Agriculture. Bulletin. Sacramento.
*California Garden. Point Loma, Calif.
*Canadian Entomologist. Guelph, Ont.
*Canadian Florist. Peterboro, Ont.
*Canadian Gladiolus Society. Bulletin. Hamilton, Ont.
*Canadian Horticulturist. Peterboro, Ont.

*Periodicals bound.

*Le Chrysanthème. Lyons, France.
Cornell Countryman. Ithaca, N.Y.
Country Gentleman. Philadelphia.
Country Life. Garden City, N.Y.
*Curtis's Botanical Magazine. London.
*Dahlia Society of San Francisco. Bulletin. (formerly Dahlia Society of California.) San Francisco.
*Dahlia Society of New England. Bulletin. New Bedford, Mass.
*Ecology. Lancaster, Pa.
*Elisha Mitchell Scientific Society. Journal. Chapel Hill, N.C.
*Experiment Station Record. Washington.
Farm and Fireside. Springfield, Ohio.
Farm Journal. Philadelphia.
Farm Life. Springfield, Mass.
Farming in South Africa. Pretoria.
*Floralia. Assen, Holland.
*Florists' Exchange. New York.
*Florists' Review. Chicago.
*Flower Grower. Calcium, N.Y.
*Flowering Plants of South Africa. London.
*Forest Leaves. Philadelphia.
*Fruit World of Australasia. Victoria, N.S.W.
*Fruits and Gardens. Grand Rapids, Mich.
*Garden. London.
*Garden and Home Builder. Garden City, N.Y.
*Garden Club of America. Bulletin. New York.
Garden Gossip. Woodberry Forest, Virginia.
*Garden Life. London.
*Gardeners' Chronicle. London.
*Gardeners' Chronicle (of America). New York.
*Gardening Illustrated. London.
*Gartenflora. Berlin.
*Gartenkunst. Frankfurt, Germany.
*Gartenschönheit. Berlin.
*Gartenflora. Berlin.
*Geisenheimer Mitteilungen über Obst— und Gartenbau. Wiesbaden, Germany.
*Great Britain. Ministry of Agriculture. Journal. London.
Guide to Nature. Sound Beach, Conn.
*Home Acres. New York.
*Hoosier Horticulture. Lafayette, Ind.
L'Horticulteur Chalonnaise. Chalon, France.
*Horticulture. Boston.

L'Horticulture Française. Paris.
*House and Garden. Greenwich, Conn.
House Beautiful. Boston.
*International Review of Agricultural Economics. Rome.
*International Review of Agriculture. Rome.
*Ireland. Department of Lands and Agriculture. Journal. Dublin.
Japanese Horticultural Society. Journal. Tokyo.
*Jardinage. Paris.
Journal d'Agriculture du Sud-ouest. Toulouse, France.
*Journal of Agricultural Research. Washington, D.C.
*Journal of Botany, British and Foreign. London.
*Journal of Economic Entomology. Geneva, N.Y.
*Journal of Forestry. Washington.
*Journal of Pomology and Horticultural Science. London.
Journal of the Market Garden Field Station. Waltham, Mass.
*Landscape Architecture. Boston.
*Linnean Society. Journal. London.
*Lyon-Horticole et Horticulture Nouvelle Reunis. Lyons, France.
*Market Growers' Journal. Louisville, Ky.
*Minnesota Horticulturist. St. Paul, Minn.
*Missouri Botanical Garden. Annals. St. Louis, Mo.
*Missouri Botanical Garden. Bulletin. St. Louis, Mo.
*Möllers Deutsche Gärtner-Zeitung. Berlin.
*Morton Arboretum. Bulletin of Popular Information. Lisle, Ill.
*Mycologia. Lancaster, Pa.
*National Horticultural Magazine. Washington.
*National Nurseryman. Hatboro, Pa.
*National Pecan Exchange News. Albany, Ga.
National Plant, Flower and Fruit Guild Magazine. New York.
Nature—Garden Guide. New York.
*New England Homestead. Springfield, Mass.
New Jersey Dahlia News. New Brunswick, N.J.
*New York Botanical Garden. Bulletin. New York.
*New York Botanical Garden. Journal. New York.
*Le Nord Horticole. Lille, France.
*Orchid Review. London.
Parks and Recreation. Tulsa, Okla.
*Le Petit Jardin. Paris.
Philippine Agricultural Review. Manila, P.I.
*Pomologie Française. Versailles, France.
Progressive Farmer and Farm Woman. Memphis, Tenn.
*Quarterly Journal of Forestry. London.

*Reale Società Toscana di Orticulture. Bulletino. Florence, Italy.
*Revue des Eaux et Forêts. Paris.
*Revue Horticole. Paris.
*Rhodora. Boston.
Rio de Janeiro. Museu Nacional. Boletim. Rio de Janeiro.
*Royal Horticultural Society. Journal. London.
*Rural New-Yorker. New York.
Santa Barbara Gardener. Santa Barbara, Calif.
*Seed World. Chicago.
Sociedad Rural Argentina. Anales. Buenos Aires.
Société d'Horticulture d'Orléans et du Loiret. Bulletin. Orléans, France.
Société d'Horticulture et de Viticulture d'Épernay. Bulletin. Épernay, France.
Société Horticole, Vigneronne et Forestière de l'Aube. Annales. Troyes, France.
*Société Nationale d'Horticulture de France. Journal. Paris.
*Société Royale de Botanique de Belgique. Bulletin. Brussels.
*South African Gardening and Country Life. Cape Town.
*Southern Florist and Nurseryman. Fort Worth, Texas.
*Special Crops. Skaneateles, N.Y.
*Torrey Botanical Club. Bulletin. Lancaster, Pa.
*Torreya. Lancaster, Pa.
*Tree Talk. Stamford, Conn.
*Tribune Horticole. Brussels, Belgium.
Tropical Agriculture. Trinidad, West Indies.
U. S. Department of Agriculture. Crops and Markets, Monthly. Washington.
Victoria. Department of Agriculture. Journal. Melbourne, Australia.
*Weekly Florist. Chicago.
*Wild Flower. Cincinnati, Ohio.
*Wisconsin Horticulture. Madison, Wis.
World Agriculture. Brookfield, Mass.
Your Garden. Cleveland, Ohio.
*Zeitschrift für Obst— Wein— und Gartenbau. Dresden, Germany.
*Zeitschrift für Pflanzenkrankheiten und Planzenschutz. Stuttgart, Germany.

Practical Rose Growing*

There seems to be a feeling among the laity in general that the growing of roses requires skill and a pocketbook, which all do not possess, and that only professionals can grow them with any degree of success. This is not true. There is no location in this broad land of ours where roses cannot be successfully grown, if the proper varieties, suitable to the locality, are selected, and reasonable care is given to them in the way of pruning, fertilizing, and spraying.

Making a Rose Bed

First, we will consider the making of a rose bed. An open, sunny location should be selected, preferably with a southeastern or southwestern exposure, where it may have good sunlight at least half of the day, and there must be no tall trees nearby, as roses will not do well if planted under the shade of trees; also avoid low ground, as the frost is much more troublesome there than it would be on a higher plane.

The fall of the year is the best time to make your beds—then they will be all settled and in better condition for spring planting. The size and shape of the bed is of no small importance. The most practical is an oblong bed three feet wide and of any length you may desire. This enables you to cultivate and work among the bushes without stepping on the beds, which should always be kept as soft and pliable as possible.

The preparation of the bed depends upon the soil. If suitable for roses and properly drained, and if one does not care to devote too much time and labor, all that will be necessary is to throw a goodly amount of well-rotted manure, some bone meal, wood ash, and leaf mould over the bed and spade it in. If, however, the soil is poor or not properly drained, the better way to do is to dig it out for a depth of from eighteen to twenty-four inches, and replace it by a compost, consisting of good clay loam, well mixed with leaf mould, bone meal, thoroughly rotted manure (either horse or

*A lecture by Dr. G. Griffin Lewis of Syracuse, N. Y., before the Massachusetts Horticultural Society, on June 25, 1927.

cow), a little old plaster, and a small amount of charcoal dust. If the subsoil is a heavy clay or shale, a row of tile at the very bottom, or even medium sized stones will take care of the drainage.

Hybrid perpetuals, as a rule, do better in a heavy clay or loam; the teas, hybrid teas and Bourbons, in a lighter and warmer soil—fifty per cent clay with more or less sand and leaf mould; Rugosas require more sand.

Selection of Roses

Having completed your beds in the fall, your next step is to make your selection of roses, so that you can get your order in early. Remember that with the average nurserymen, orders are filled in order of their receipt, and the first ones, as a rule, get the pick of the stock, so if you do not get your order in before January 1st, do not complain if the bushes sent you are of inferior quality and substitutions are made. In making your selection do not depend upon catalogue descriptions or on agents, but if unacquainted with the various varieties, seek the help of some rosarian or nurseryman of your acquaintance. By all means patronize none but trustworthy concerns, and be sure to specify "two-year-old, field-grown, budded stock, and no substitutions." I emphasize this for the reason that many nurserymen handle only the own-root roses which are much cheaper and much inferior to the budded stock, in that they will not grow as thriftily, bloom as abundantly, or winter as well. Personally, I would not waste the space or time on own-root roses, and the small hothouse potted plants are of no use whatever.

Planting Directions

The question as to which is preferable, fall or spring planting, depends upon the climate in which you live, and on the kind of winter protection which you intend to give them. There is no question but what roses planted in the fall of the year, when the ground is still warm, will get a somewhat better start and perhaps give us a greater abundance of bloom the first year, providing they are well covered up during the cold weather months, for remember that your root system has become only partially established. Personally,

Rev. F. Page-Roberts Rose

in central New York, I prefer very early spring planting, just as soon as the frost is out of the ground. Roses planted at this time will do well and bloom profusely in the following June, and you will not lose any of them during the next winter.

When your plants arrive early in the spring, if you are not ready to set them in at once, dig a trench and hill them in until such a time when you can set them. For the spring planting, secure a day which is cloudy and not windy, or else the roots may get dry. A better way is to put a few bushes in a pail of water, and take out one at a time as they are planted. We assume that you have properly drawn a diagram of your bed and placed sticks in the soil at the places where you wish to dig each hole. By so doing, you can get the bushes much more evenly placed, for an irregular row of bushes will spoil the looks of your bed. After removing each rose bush from the water pail, prune the long center root and if there are any broken roots be sure and cut them off. Dig your hole large and deep enough, so that the roots can all be properly spread out. After so doing, throw the fine soil in until the hole is half filled, then take hold of the bush at the collar, and shake it up and down, so that the soil will settle down well around the root, at the same time pulling the plant up so that the collar will be at the proper distance (two inches), below the surface of the bed; then fill the hole mostly full of dirt, and stamp it down well with your feet, after which the top is filled with loose soil.

After all the roses in the beds have been planted, level the surface. If the soil is not quite moist enough, pour a little water in the hole before filling with the loose soil. If the roses are planted so that they will be diagonally opposite each other in the bed, the bushes will have more room for expansion without touching each other. Of course, all roses of whatever variety should be severely pruned just before or after planting.

It is a great pleasure to watch the development of leaves and buds on these newly planted roses, and it is amazing how rapidly this development takes place.

Care of Rose Plants

Now begins the care on which the abundance of the bloom so much depends. I refer to the watering, hoeing, spraying and dusting, which have so much to do with the success of rose culture.

Insect Pests

There are many insects and diseases which infect the rose, most of which can be successfully combatted if handled in the proper manner and at the proper time.

Of the insects, those which we have to contend with mostly are, first, the aphis, a little green or pinkish sap sucker. These are easily destroyed by spraying with a solution of Black-leaf 40 and soap, (seven teaspoonfuls of Black-leaf 40, one-fourth of small bar of Ivory soap, eight gallons of water).

The rose beetle, which comes up from the ground about the middle of June, and usually lives from two to three weeks, eats the bud and flower. It is limited in its destructive efforts by the application of Bordeaux mixture, Melrosine or Kerosene Emulsion. Hand-picking is also advisable.

The caterpillar or leaf roller is a green worm with black head, which lives on the under side of the leaf, causing it to roll up. For this, we spray with arsenate of lead (one-fourth part to six gallons of water).

The sawfly enters the cane in the fall, eats the pith, and makes its exit by boring a hole lower down in the cane. All such canes should be cut off below the lower hole, while hellebore dust will partly destroy this fly.

The spider will weave its web around the lower canes of rose bushes, especially if the latter have not been properly trimmed out in the centre, when pruned. The leaves will then turn yellow and fall off. Forcible spraying with the hose or the application of a soap and quassia solution will eliminate them.

The white grub lives in the soil and eats the roots of the bush. Ofttimes we have no warning of this pest until the plant withers, then it should be dug up and destroyed, the soil searched for this insect, and the ground wet with boiling water or a formalin solution.

The rose curculio, another beetle, with a bright red body and black legs, eats holes in the bud in early spring, so that they will not mature. Handpicking and spraying with the arsenate of lead solution is advisable.

Diseases of Roses

The best protection against diseases in the plant, like diseases in the individual, is good health and proper nourishment. Insufficient or over feeding will predispose to disease.

The most prevalent disease we have to contend with in rose life is mildew, with which you rose growers are all more or less familiar. This is a fungous disease which rarely kills but greatly reduces the vigor of the plant. Mildew may occur at almost any season of the year, according to climatic conditions, being more prevalent in damp weather, but it is most likely to occur in the late summer or early autumn, when the nights begin to get chilly. As the treatment of mildew is practically the same as for that of black spot or orange rust, I will refer to the treatment later, after a short consideration of the latter two diseases.

There are innumerable diseases which affect the rose, but I will only take the time to briefly refer to those which are the most prevalent and destructive.

Brown canker is perhaps the most destructive fungous disease affecting the rose, and the most discouraging to the amateur rose grower is the so-called brown canker or cane blight. It was known in the United States as early as 1904, but was not generally distributed.

During the past two or three years it has increased rapidly in prevalence and severity. The teas, hybrid teas and hybrid perpetuals are particularly susceptible to it, while the Briars, Rugosas and Mosses seem to be less easily affected.

While brown canker is more prone to appear on the canes, it may also affect the leaves, blossoms and fruit. On the canes it is manifested by patches of a common buff color with a purplish border. Small spots of a similar color may also appear on the leaves. Frequently the outer petals of the bloom are covered with large circular areas which mars its beauty. Frequently the bud fails to open.

About the only remedy employed during the past few

years for this nuisance is a spray of Bordeaux mixture and lead arsenate. This should be applied once a week. All diseased canes should be removed and burned. Even this treatment will not prevent the disease from returning on the following season. I believe that when a plant becomes infected with brown canker every bit of the old wood should be cut down to the ground. Mildew is perhaps the most prevalent disease of the rose with which we have to contend, and next to brown canker, the most destructive. While it seldom kills the plant, as brown canker does, it interferes greatly with its growth and flower production. It is a fungous disease manifested by small isolated grayish spots, first on the older leaves, then on the younger ones, and finally around the stems below the bud or bloom where it has an appearance of frost.

Mildew is greatly influenced by atmospheric conditions, being much more prone to appear in excessively damp weather, and may occur at any time from June until October, especially during the latter part of August, when the days are warm and the nights cool. Some varieties are more susceptible to mildew than others, especially the Pernetianas. The spores are easily carried by the wind from one plant to another. While prevention of this disease is better than cure, mildew can be both prevented and cured by the weekly dusting with Massey's mixture (nine parts powdered sulphur and one part lead arsenate). It is well to begin the treatment about the first of August, unless the season is a wet one, in which case it should be begun earlier. The best and simplest way of applying this mixture is by means of the cheese cloth bag on the end of a long pole. This method covers the foliage with a very light, even application, and is much quicker done than any other.

Black spot or leaf blotch, as it is sometimes called, is also a fungous disease, appearing as black spots on the leaves, especially those on the lower part of the bush. It is one of the most fatal and most difficult diseases to deal with. It occurs wherever roses are grown but it is more prevalent in some localities than others. Some varieties are more susceptible to it than others, and here, also, the Pernetianas are the easy victims. Black spot generally comes in the fall of

the year and is easily carried by the wind from one plant to another.

Once this disease becomes manifest it cannot be cured. The only thing we can do is to pick off and destroy all affected leaves, but if you will begin by the first of August and continue this treatment each week, until October first, you will surely prevent the occurrence of both mildew and black spot.

Orange rust is another fungous disease which fortunately does not appear until late summer or autumn when the blooming period is about over. While it is not so common or destructive as mildew or black spot, it is much more difficult to combat, either by preventatives or remedial measures, for its growth is inside of the leaves and stems. A spray of potassium sulphide (1 oz. to 10 gal.), early in the season, may have some influence as a preventative, but removal of affected leaves and canes is the only control measure, and if a bush is affected for two or three seasons, dig it up and burn it.

Brown canker is not a fungous disease. It occurs only in budded or grafted stock, and is manifested as a swelling, either just below or more often, just above the junction of the stock and scion just below the surface of the soil. It may be ascribed to insufficient nutrition, consequent on an imperfect union. Too much moisture at this part is supposed to play an important part in the causation. For this reason removal of soil from the part and allowing it to dry will often abort or cure the trouble.

Root rot is another fungous disease affecting the roots of certain varieties, especially during the rainy seasons. The buds are blighted just as they are about to open, then the petals turn brown and fall off. Unfortunately, this disease is never discovered until it is too late to save the plant, and as no method of control or cure is known, the only thing to do is to dry up the plant and destroy it.

Fertilizers

A few words about the fertilization of roses may be of some practical interest. The three principal chemical ingredients of a fertilizer necessary for the rose are nitrogen,

which stimulates rapid growth, phosphorus, which stimulates and gives color to the bloom, and potassium, which produces stronger stems and better foliage. All three of these elements are contained in a well rotted horse or cow manure, or in a mixture of sheep phosphate, bone meal and wood ash.

Each season, just as soon as I unhill my roses in the early spring I spread a good trowelful of a mixture containing one part of slacked lime, and two parts each of sheep phosphate, bone meal and wood ash, around each plant. This is all the fertilizer I put on my bushes during the whole season, excepting the well rotted cow manure, which I put on the beds, filling the depressions made by removal of dirt during the hilling up of my roses in the late fall or winter. In the spring, when I unhill, I leave this manure on, covering it with the dirt I take from the bushes. With this treatment I omit the usual application of liquid manure during the budding season, for I believe there is just as much danger of overfeeding as there is of underfeeding.

Pruning Roses

Pruning of roses is always preferable in the early spring, just as soon as the frost is out of the ground and the canes begin to turn green. Pruning consists of cutting out all dead wood, most of the old wood, the superfluous canes, thinning out the center and improving the shape of the plant. If most varieties of rose bushes were not pruned, the blooms would be on the top branches only and would be of very inferior quality.

There are two methods of pruning: First, pruning for quantity of bloom, where we cut the canes down to within six or eight eyes from the parent shoot, and second, pruning for quality of bloom, where we cut them down to within from two to four eyes. The cutting of blooms, if properly done, is a method of pruning which will be beneficial to the plant and assures a larger crop on the same cane later. Cut long stems, just above the third or fourth leaf below the bloom. If this is done, you are pretty sure to get another flowering shoot on the same cane later.

Winter Care

The method of winter protection of roses depends upon the locality, the exposure, and the variety. For most ordinary varieties, with the exception of the teas, all that is necessary in central New York, is to hill the bushes up well in the late fall, after we have had two or three severe frosts, and the wood has become well seasoned; then fill the depressions made between the bushes by the removal of dirt, with plenty of well rotted manure. The more tender roses should be covered with a box after the hilling, but be sure not to have too tight a box which will prevent proper ventilation, else your bushes will become mouldy.

Climbers are generally just tied up and laid down on the ground to be covered with the winter's snow, which is one of the very best protections against the extreme cold.

Propagation of Roses

Before closing I might say a few words about the propagation of roses. The so-called own-root roses are obtained by slips, layering or pollination. For slipping, cuttings are made from a bush, usually selecting branches which have just bloomed. Cut them off just above the top leaves, and after removing all but the two top leaves, stick them into the sand to a depth of several inches, and cover with glass, occasionally wetting the sand.

Layering consists of taking one of the lower branches of the bush, cutting a notch in the under side, bending and pegging it down, so that it will stay; then cover the cut portion with the soil which is kept moist. Roots will develop at this point, after which it can be removed from the parent bush and potted.

Pollination, which is a much more difficult procedure, is hardly a practical method of propagation for the amateur. It consists of removing the petals from the flower of one plant and then shaking the pollen from the flower of another plant on to its stamens, after which the pollinized flower is protected from the wind and bees, by covering it with a small paper bag. When the seeds are ripened, they are removed and given a thorough soaking in water before being planted.

As budded roses are by far the most in demand, the budding process of propagation is the one most generally carried out by the majority of our growers. This consists of cutting a T-shaped slit in the bark on the collar of some wild rose, such as the Multiflora, and then inserting a bud from the bush of the variety you desire to propagate, after which it is tied securely in place by raffia.

Benevolent Fraternity Fruit and Flower Mission

The Benevolent Fraternity Fruit and Flower Mission desires to express its appreciation to the Trustees of the Massachusetts Horticultural Society for their continued co-operation in the work of the Mission during 1927.

The past summer has undoubtedly been the busiest summer we have experienced, in spite of the late and stormy season.

Two hundred and sixty-seven hampers were received during the eighteen weeks of the hamper work and over 4000 bouquets were sent out from our four distributing centres, as well as fruits, vegetables and "goodies." These hampers are packed by individuals, garden clubs, federations of churches, Lend-a-Hand clubs and other societies in the different communities.

The booths at the North Station and the South Station were opened as usual on June 1 and closed on October 1, 1927. Welfare agencies and hospitals called regularly at these booths each morning at 12 o'clock for the contributions left by commuters.

The response at Horticultural Hall has been generous. To our headquarters in the basement have come contributions of flowers, fruits and vegetables from individuals; from the growers of New England through the salesmen of the Boston Flower Exchange; from debutante affairs and weddings; and from the funerals of some of our noted citizens. Through the courtesy of Mayor Nichols, all of the pansy plants from the Public Gardens were sent to us when the beds were made ready for the summer. At Thanksgiving and at Christmas our room was filled with the donations received from interested friends.

It would be impossible to handle this phase of the Fruit and Flower Mission work, except for the space afforded by Horticultural Hall.

The exhibits after the flower shows are distributed by a

large number of our list of 79 volunteers, some of whom furnish automobiles for the distribution.

Thus through the year many thousands of patients in hospital wards, in our veterans' hospitals, in children's institutions, in homes for the aged, in clinics, and so many lonely and sick shut-ins, are cheered because of the Benevolent Fraternity Fruit and Flower Mission, in which work the Massachusetts Horticultural Society plays an important part.

Emily I. Elliott,
Executive Secretary.

Boston, Mass.

Cypripedium viridissimum Blenheim House
Exhibited by Thomas M. Proctor at the Inaugural Meeting in 1927

REPORTS

OF THE

OFFICERS AND COMMITTEES FOR 1927

MASSACHUSETTS HORTICULTURAL SOCIETY

PRESENTED AT THE

ANNUAL MEETING JANUARY 9, 1928

WITH A

LIST OF THE NEW MEMBERS

Inaugural Meeting

The inaugural meeting for 1928 was held at Horticultural Hall at 3 P. M. Monday, January 9, with a large attendance. In the absence of the President, Mr. Albert C. Burrage, who was abroad, the chair was occupied by Mr. Nathaniel T. Kidder, a former president.

The Secretary read the call, and the rest of the meeting was given to the reading of a letter from the President and the reports of the officers and committees as follows:

The President's Letter

To the Members of the Massachusetts Horticultural Society:—I am compelled to take a brief vacation in a sunnier clime and am leaving for Egypt on January 4th, so that I cannot be present at the first meeting of the Society which comes on January 9, 1928, which I greatly regret as I should like to add my words to those of the other officers of the Society, who will give you full reports for the past year.

They will furnish you, better than I can, the exact figures relating to the various activities of the Society; and these will, I am sure, satisfy everyone as to the steady, stable progress which is being made in every way,—in membership, in the circulation of *Horticulture,* in attendance at the exhibitions, in the use of the library, in consultation work, and in the increase of income.

The Trustees of the Society do not now feel any necessity for drives or campaigns for this Society, for funds, or membership, or magazine circulation; they believe in continuous growth as being the soundest. They believe in exercising a wider influence, but not if obtained at too great a cost.

The Trustees are mindful that the Society, founded in 1829, has been in continued existence since that time and that it has exerted a great and helpful influence upon the community in which it exists, and they believe that this life and this influence should be commemorated in suitable ways when the Centennial shall have been reached. They are actively engaged in this matter; committees have been ap-

pointed and it is expected that announcements will be made in the near future as to these celebrations.

It is fitting at this time to ask each member to do what he can to help in this undertaking. It is not likely that any general demand will be made for funds but it is likely that some will be asked to make special contributions of materials or awards.

ALBERT C. BURRAGE, *President.*

Report of The Secretary

If the progress of an organization is to be measured by the increase in membership, the year 1927 was a particularly successful one for the Massachusetts Horticultural Society. During the twelve months, 1084 new names were added to the rolls. This was the largest increase in any one year in the history of the Society. The total membership at the end of the year was 4,037. Among the new members were 19 life members. It is a matter of regret, however, that the number of life members actually dropped during the year, there having been 28 deaths among them. The total losses from death and resignations for the year were 212. The percentage of withdrawals was surprisingly small.

The deaths for the year included that of Prof. Charles S. Sargent, director of the Arnold Arboretum and for many years one of the most active and valued of the Trustees. Prof. Sargent's passing came as a severe blow to the Board of Trustees and to the Society as a whole. His work in behalf of the Society was eloquently summed up by Mr. William C. Endicott at a memorial service held in the Arboretum in June. At the Annual Meeting of the Society, the vacancy caused by Professor Sargent's death was filled by the election of Mr. Oakes Ames to the office of vice president. Another new Trustee was added to the Board by the election of Mr. Robert C. Morse, who has been an active exhibitor for several years.

Early in the year Mr. E. H. Wilson, one of the Trustees, conducted a series of Monday morning classes in the lower lecture hall which proved a remarkable success. The total attendance at these classes was 1060, and so much interest

was aroused that 259 books were given out in the library, while 30 new members joined in order to attend the lectures, which were free to members. This course was so successful that something along similar lines will probably be attempted in 1928.

In the course of the year an important alteration was made on the mezzanine floor, the division wall being removed and the document room transferred to the floor above. As a result of this change, much additional space on the mezzanine floor has been made available for exhibition purposes and meetings. Easychairs and tables have also been provided, making a pleasant and comfortable rest room.

At a meeting of the Trustees in January, 1927, the George Robert White Medal of Honor was awarded to Professor Liberty Hyde Bailey, of Ithaca, N. Y. At a later meeting the new Thomas Roland Medal was awarded to Mr. Roland himself, and the Jackson Dawson Memorial Medal was awarded for the first time, going to Lambertus C. Bobbink, for his skill in propagating hard wood plants.

At the September meeting of the Trustees definite action was taken in preparation for the centennial celebration of the Society in 1929, a committee being appointed to consist of the President and all living ex-Presidents.

The Committee on Gardens was particularly active in 1927, visiting gardens in many parts of the state. The awards which were announced at the October meeting of the Trustees were as follows:

A large Gold Medal to Frederick S. Moseley, for an estate of superior merit.

A Silver Medal to Mrs. Louis A. Frothingham for a Rose garden of superior merit.

A Silver Medal to Dr. Frederick C. Shattuck for a garden of unusual character.

A Bronze Medal to Mrs. Isaac Sprague for a rock garden of superior merit.

A Bronze Medal to Mrs. J. C. Wardwell for a walled garden of superior merit.

A Garden Certificate to Mrs. Churchill for semi-formal and wild garden of superior merit.

A Garden Certificate to Mrs. George Phillips for a home garden of superior merit.

At the same meeting a vote was passed instructing the secretary to have uniform coats made for the janitor and his assistants.

At the December meeting a special committee appointed to consider the awards of the Society's medals to other organizations reported as follows:

"We approve the custom of offering medals, unsolicited, to various horticultural organizations, but we advise that not more than five gold medals and not more than ten silver medals be awarded in any one year.

"We believe that the widest possible distribution of these medals is for the best interests of the Society."

At the annual meeting a large number of amendments to the By-Laws were adopted in order to make the By-Laws conform with present practices. These By-Laws are now being reprinted. Because of the expense involved, they will not be distributed broadcast, but will be sent to any member who makes application to the Secretary.

Miss Helen M. Murdock gave the Society a large collection of autochrome photographs of exhibitions and gardens, which have been on display in the library and much appreciated by the members.

There has been a marked falling off in rentals, due largely to the competition of the Statler Hotel and other new halls. This competition is likely to become even more acute.

Perhaps attention should be called to the extent to which Horticultural Hall is coming to be used as a meeting place for horticultural organizations of many kinds. Among such organizations now holding meetings here are the following:

National Gardeners Association
Gardeners' and Florists' Club of Boston
Massachusetts Federation of Garden Clubs
New England Greenkeepers' Association
Boston Mycological Society
Dahlia Society of New England
New England Gladiolus Society
Benevolent Fruit and Flower Mission.

Exhibit of the Noanett Garden Club, Awarded the Massachusetts Horticultural Society's Gold Medal

In closing this report, the Secretary wishes to express his appreciation of the courtesy and good will extended to him by the Trustees and the members of the Society throughout the year.

Report of the Treasurer

Income

Income from Investments and Bank Interest		$25,723 23	
" " Rents		8,820 56	
" " Membership Fees		6,366 00	
" " Sale of Lots in Mt. Auburn Cemetery		2,878 63	
" " Exhibitions		12,124 00	
" " Library Catalogue		15 00	
" " Donations		116 00	
" " Lecture Tickets		36 50	
" " Incidentals		1,021 90	
Donations to Plants and Flower Prizes		85 00	
" " Fruit Prizes		50 00	
" " Medals		120 00	
Returned from *Horticulture*		2,000 00	
Returned to Funds		93 00	$59,449 82

Expenses

Operating Expense		$44,711 45	
Viz: Labor	$8,159 43		
Salaries	12,523 74		
Lighting	2,664 65		
Heating	1,531 16		
Incidentals	9,622 61		
Stationery and Printing	3,700 33		
Repairs	4,035 07		
Library	845 11		
Insurance	1,629 35		
Prizes		$ 3,706 25	
Viz: Plants and Flowers in excess of income from special funds	$2,910 75		
Fruits in excess of income from special funds	62 00		

Vegetables in excess of income from special funds	$ 347 00		
Children's Gardens	386 50		
Expenditures by Committees		$ 2,784 74	
Viz: Lectures and Publications	$ 503 21		
Medals	1,836 53		
Plants and Flowers	240 00		
Fruits	100 00		
Vegetables	105 00		
Expenses Paid from Funds		$ 2,301 23	
Viz: John D. W. French Fund	$ 418 65		
John S. Farlow Fund	92 70		
John C. Chaffin Fund	87 00		
Benjamin V. French Fund	146 00		
John Allen French Fund	238 00		
Samuel Appleton Fund	18 00		
John A. Lowell Fund	21 00		
Josiah Bradlee Fund	9 00		
Henry A. Gane Fund	35 00		
Theodore Lyman Fund	558 00		
H. H. Hunnewell Fund	100 00		
William J. Walker Fund	71 00		
Levi Whitcomb Fund	15 00		
Benjamin B. Davis Fund	6 00		
Marshall P. Wilder Fund	48 00		
George R. White Fund	296 57		
John S. Farlow, Newton Hort. Society	74 00		
Jackson Dawson Fund	67 31		
Subscriptions to *Horticulture*		$ 2,850 00	
Miscellaneous		350 00	
Total Expenditures		$56,703 67	
Excess of Income over Expenditures		2,746 15	$59,449 82

Membership

December 31, 1927

Life Members, December 31, 1926	838
Added in 1927	15

Changed from annual	4	
	857	
Deceased	28	829
Annual Members, December 31, 1926	2,549	
Added in 1927	1,084	
	3,633	
Changed to Life 4		
Deceased 22		
Resigned and Discontinued 162	188	
	3,445	
Holding for dues	236	3,209
Membership, December 31, 1927		4,038

Life Membership Fees

15 New Life Members at $50	$ 750.00
4 Annual Members changed to Life	200.00
	$ 950.00

Income from Membership

1084 New Annual Members at $2	$2,168.00
Annual Members Dues	4,114.00
Annual Dues Paid in Advance	84.00
	$6,366.00

List of Bonds and Stocks Held by the Massachusetts Horticultural Society

$11,300	Pere Marquette R. R. Co. 5% Bonds, 1956	$ 9,933 75
25,000	Kansas City, Fort Scott & Memphis R. R. Co. 6% Bonds, 1928	25,000 00
50,000	Chicago, Burlington & Quincy R. R. Ill. Div. 3½% Bonds, 1949	50,000 00
8,000	Boston & Maine R. R. 4½% Bonds, 1944	8,000 00
4,000	Interborough Rapid Transit 5% Bonds, 1966	3,920 00
4,000	American Telephone & Telegraph Co. Conv. 4% Bonds, 1936	4,000 00
20,000	Atlantic Refining Co. 5% Bonds, 1937	19,940 00
10,000	American Telephone & Telegraph Co. Conv. 4½% Bonds, 1933	8,396 00

12,000	Pacific Telephone Co. 5% Bonds, 1937	$11,670 00
10,000	New York Central R. R. Co. 5% Bonds, 2013	9,950 00
11,000	Consolidated Electric Co. Gen'l Mtge. 5% Bonds, 1955	10,010 00
11,000	Ohio Power Co. 1st & Ref. Mtge. 6% Bonds, 1953	10,835 00
5,000	United States Steel Corp. 5% Bonds, 1963	5,043 75
10,000	Southern California Telephone Co. 5% Bonds, 1947	9,550 00
5,000	American Telephone & Telegraph Co. 5% Bonds, 1946	4,973 75
3,000	Chicago Junction Rys. & Union Stock Yards Co. 5% Bonds, 1940	2,824 50
5,000	New England Telephone & Telegraph Co. 5% Bonds, 1952	4,982 50
5,000	Western Union Telegraph Co. 5% Bonds, 1938	4,982 50
13,000	Southern Public Utilties 5% Bonds, 1933	11,862 50
5,000	Western Electric Co. 5% Bonds, 1944	4,825 00
15,000	Yadkin River Power Co. 5% Bonds, 1941	15,077 50
3,000	Philadelphia Suburban Water Co. 5% Bonds, 1955	2,955 00
10,000	New Jersey Power & Light Co. 5% Bonds, 1956	9,950 00
15,000	Indianapolis Gas Co. 5% Bonds, 1952	14,775 00
15,000	Fisk Rubber Co. 5½% Notes, 1931	14,737 50
15,000	Columbus Electric & Power Co. 5% Bonds, 1954	14,700 00
10,000	Puget Sound Power & Light Co. 5% Bonds, 1949	10,150 00
20,000	Portland Gas & Coke Co. 5% Bonds, 1940	19,900 00
6,000	Commonwealth Edison Co. Coll. 4½% Bonds, 1956	5,745 00
25,000	State of New South Wales 5% Bonds, 1957	24,062 50
5,000	Utah Power & Light Co. 1st Mtge. 5% Bonds, 1944	4,900 00
15,000	Georgia Power Co. 1st & Ref. 5% Bonds, 1967	14,550 00
10,000	Public Utilities Corp. 5½% Bonds, 1947	9,925 00
15,000	Railway & Light Securities 5% Bonds, 1951	14,587 50
7,000	Shell Pipe Line Corp. Deb. 5% Bonds, 1952	6,860 00
	.....	5,533 54
548	Shs. General Electric Co. Common	
726	" General Electric Co. Special	
137	" Electric Bond & Share Securities Corp. Common	
500	" Consolidated Gas Co. of New York, Preferred	46,480 00
		$455,587 79

Horticulture

Receipts and Disbursements Year 1927

Receipts

Advertising	$22,331 47
Subscriptions	9,893 69

Books	$319 59
Miscellaneous	170 94
	$32,715 69

Expenses

Printing	$14,723 11
Paper	5,903 37
Books	200 05
Postage	716 15
Cuts	1,070 76
Commissions and Discounts	5,284 32
Subscriptions Returned to Horticultural Society	2,000 00
Wrappers	203 82
Subscriptions Returned	38 00
Miscellaneous	1,478 92
	$31,618 50
Surplus of Receipts over Expenses	1,097 19
	$32,715 69

John S. Ames,
Treasurer.

Report of the Committee on the Library

The death of Professor Sargent, after a chairmanship of twenty-three years, has made this a year of transition and readjustment. The new committee held their first meeting in May and have met monthly since September.

The use made of the library is still increasing, and with a growing membership and an active Society this is what we should expect. Those who live near enough to do so, visit the library in greater numbers, no doubt encouraged in some cases by the elevator. These visitors and an additional large number who borrow by mail have taken out 2653 books for home use—699 more than a year ago.

While we need not expect every member of the Society to be a constant user of the library, we should like to see still more taking advantage of the opportunity. Regardless of place of residence, every member may borrow for home use

the books generally needed by the average amateur or professional. Those who live near enough are urged to visit the library and to select their books in person, but all members may have books mailed to them. Those who have problems to solve are welcomed, and are promised information to the full extent of the library's resources.

The physical equipment of the library has been improved by the construction of nine additional ranges of shelving in the stack, giving an increased capacity of seven hundred volumes.

In January, a leaflet of revised library rules and general information was sent to all the members and the same leaflet goes to each new member with his membership card. Everyone, consequently, has in his possession all the essential information about the library and how to use it. Two talks have been given in the library this year, one by the Librarian on "How to use the library," the other by Miss Tucker, the Librarian of the Arnold Arboretum, on "The lure of gardening as expressed by its literature." The library has contributed to *Horticulture* regular information about new books added to the collection, and has often made up reading lists on current topics both for the magazine and for individuals.

The year 1927 has been conspicuous for the number of contacts with outside institutions, actual requests for information or assistance as distinguished from simple exchange of publications. No less than thirty such organizations have given us help or asked help from us. They have included a bookshop, a bank, several public libraries, agricultural experiment stations and other organizations devoted to practical plant growing, and schools of Landscape Architecture. Geographically they have been scattered from California and South Dakota to our neighbors in Copley Square, the Boston Public Library. The newly aroused enthusiasm for garden clubs in Massachusetts has made itself evident in requests for literature helpful in organizing such clubs and for advice in forming club libraries.

The reputation of our Society in the horticultural world is well known. That the library itself occupies an enviable position may perhaps be news to some people. We are for-

tunate in the possession of the largest and most complete library of its kind in this country, and one which ranks high among the horticultural libraries of the world. To meet present day needs, we have the best of current books and magazines, while the scientific importance of the collection is founded on many volumes famous for their beauty, their rarity, or their importance in the history of plant culture.

NATHANIEL T. KIDDER, *Chairman.*

Report of the Committee on Lectures and Publications

Nine lectures at a total cost of $503.21 were delivered before members of the Society during the year 1927;

The Lure of Gardening, as Expressed by its Literature (In the Library), by Miss Ethelyn M. Tucker, of the Arnold Arboretum, April 1, 1927.

Rock Gardens, by Carl Stanton, Peterborough, N. H., April 2, 1927.

Flower Arrangement, by B. F. Letson, Boston, Mass., April 3, 1927.

Lawns and Their Care, by Professor L. S. Dickinson, Amherst, Mass., June 4 and 5, 1927.

Seeds Bewitched, by Herbert W. Faulkner, Washington, Conn., June 18 and 19, 1927.

Practical Rose Growing Illustrated, by Dr. G. Griffin Lewis, Syracuse, N. Y., June 25, 1927.

The Rose Gardens of the World, by Dr. G. Griffin Lewis, Syracuse, N. Y., June 26, 1927.

New England Birds and Wild Flowers, by Mrs. Harriet W. Goode, Sharon, Mass., August 27 and 28, 1927.

Gardens of Europe and America, by Miss Frances B. Johnson, Washington, D. C., December 13, 1927.

All the lectures were well attended, that by Miss Frances B. Johnson on "The Gardens of Europe and America" being noteworthy on account of her slides and the wonderful photographs illustrating her subject that were exhibited.

In March the fourth "Year Book" of the Society was issued, In this appears details concerning the principal activities of the Society for the year.

Horticulture Illustrated has had another successful year. On January 1st, 1927, the paid circulation was 10,982. Today the circulation is 13,200. With the exception of the state of New Mexico the paper circulates in every state in

the Union as well as Canada and most of the European countries. The volume of advertising carried during the year amounted to $22,331.41 as against $17,036.37 in 1926, being an increase of $5,295.04. The total receipts for the year amounted to $34,788.07. The expenses were $29,618.50, leaving a cash balance of $5,169.57. At the last meeting of the Trustees the Committee on Lectures and Publications were able to transfer to the Society $2,000, leaving *Horticulture* with a cash balance of $3,169.57.

Members will note that further progress is being made towards a cover for *Horticulture Illustrated.* We are also making a further effort to improve the appearance of the magazine by using a higher grade paper in order that the illustrations may be reproduced to better effect. Last year this committee pointed out that the subscription rate of one dollar per year to the general public was ridiculously low; we would reiterate this comment. That *Horticulture* has had a successful year is again due mainly to the devoted labor of our editor and secretary, Mr. E. I. Farrington.

E. H. Wilson, *Chairman.*

Report of the Exhibition Committee

The following exhibitions were held during the year 1927:

March 30 to April 3.
Grand Spring exhibition of plants and flowers.
Attendance 23,914.

June 4 and 5.
Rhododendrons, Azaleas and Irises.
Attendance 5,179.

June 18 and 19.
Paeonies, Roses, Sweet Peas and Strawberries.
Attendance 12,505.

August 20 and 21.
Gladioli.
Attendance 10,633.

September 10 and 11.
Dahlias.
Attendance 8,848.

October 28 to 30.

Grand Autumn Exhibition of fruits, flowers and vegetables. Attendance 13,241.

Looking back three years we find the total attendance for all exhibitions (excepting that of the children's gardens, for which records were not kept) to be as follows:

1925	57,730
1926	66,192
1927	74,391

These figures show a steady increase from year to year and the records show that many more people go to the Spring show than to any other, despite the fact that this is the only show to which admission is charged.

It was in 1926 that the Society's Trustees voted to charge admission to the Spring show, which for several years had been free, like all the others. As a result of this change in policy the Society received $9,206.00; while in 1927 the receipts were $12,071.00. Here is a total for two years of over $21,000.00, and a net result figuring far better as regards the total income of the organization than some thought could be achieved. One might say that the Spring show represents a principal or capital sum of about $200,000.00, though with some expenses to be deducted. These expenses would not be incurred, or could not be afforded, were the show a free show, but made the exhibition better as well as better attended.

The Spring exhibition is free to members of the Society and at certain hours it is free to school children. It seems, therefore, fair to assume that the greater part of these large receipts has come from those accustomed to paying larger admission fees, such as theatres, concerts or lectures may charge. All flower shows are very expensive, both to exhibitors and to the Society, and it would appear that the cost of admission really is very low.

We are again fortunate in having the services of Mr. Chester I. Campbell and his efficient organization to manage the publicity for the Spring show. The results are evidence that his work was successful and satisfactory. It is the unanimous opinion of this Committee that exhibitions with an entrance fee are able to appeal to more people, and attract them, who are really interested in gardening and the Society's activi-

ties, than can free shows. During last Spring's exhibition 155 new members were made, besides 25 subscriptions to "Horticulture" and 28 gardening books sold. There was also additional use of the Library.

Admission will be charged to the coming Spring exhibition, to be held next March. The Exhibition Committee appeals for a continuance of the same generous support and helpful co-operation that has brought success on previous occasions. Without this your Committee will indeed be helpless.

All of last year's shows were interesting and important but of course it was to be expected that the Spring and Fall displays were the most outstanding. Probably they compare favorably with any held in recent years. The attendance for these shows surpasses that at the Summer shows. Most of the plants and flowers in these two larger shows are grown under glass where conditions are more or less under control; while for the Summer shows most of the material is from out of doors where little control is possible. This leads to considerable instability and misunderstanding, for crop maturities can not be dated accurately so long in advance as is necessary in setting the times for these exhibitions.

Not many years ago the Society was almost the only one in this country giving horticultural shows. Due to its great work, now covering a period of one hundred years, there are numerous displays, large and small, throughout the state—with an influence extending into other states. Has the time arrived for this Society to give fewer Summer shows? Can its great resources be of greater value and service if used more in other educational directions. This might mean sending out lecturers and instructors, broadcasting horticultural information, assisting garden clubs, and pointing the way toward better horticulture wherever and whenever guidance was useful. New England is considered by many America's Summer playground and our Society can go far and appropriately to make Massachusetts the most beautiful Summer flower garden in America, and to give it properly experienced gardeners.

Your Exhibition Committee acknowledges the great assistance of the owners of private estates, who through their generosity and public spirit, even throughout the long life of the Society,

Regal Lilies Exhibited by Mrs. Bayard Thayer at the Spring Flower Show

have been always ready and willing to share with others the products of their gardens. The Massachusetts Garden Clubs, with Mrs. S. P. Wigglesworth as general Chairman, were again a very important factor in the success of the Spring Exhibition. Much additional space has been granted to this group, in which to stage and present their unique exhibits.

At the Fall show the New England Wild Flower Preservation Society, of which Mrs. S. V. R. Crosby is chairman, arranged a very large educational exhibit which attracted much attention. It made a strong appeal and doubtless gained adherents to the large group interested in the preservation of wild plants. With the reaching afield of the automobile the need for this attention is becoming more evident.

The work of your Committee has been made pleasant and almost easy by the hearty and willing cooperation it has received, and for which we sincerely expressed our thanks.

THOMAS ROLAND, *Chairman.*

Report of the Committee on Prizes

The premium list offered by the Society in its schedule for the year 1927 totaled $7,135.25. The total awards including gratuities of $208.00 amounted to $4,878.00, leaving a balance of $2,257.25. (The complete list of awards is given on another page in this "Year Book.")

Exhibitions

During the year eight exhibitions were held, one of which as usual was devoted to the products of children's gardens. The spring exhibition was a notable success to which the cooperation of the garden clubs greatly aided. It will be long remembered among other things for Mrs. A. C. Burrage's remarkable Rose display at the end of the exhibition hall. Three shows in June are too many. The quality of the exhibits at these June exhibitions is well shown by the fact that at the three shows only one President's Cup was awarded. A rearrangement of the dates of these shows and the elimination of one ought to be considered. The autumn show brought out a number of very fine exhibits of evergreens. At the

Gladiolus and Dahlia show, held in conjunction with the special societies devoted to these flowers, an attempt was made to make the individual exhibits blend into one harmonious whole. On a whole the arrangement of the shows continues to show improvement. The exhibits are now staged on time for the judges to commence at one o'clock. As to the quality of the exhibits displayed a brief comment or two may be in order.

Flowers

In general the standard of former years was easily maintained and in many instances exceeded. At the autumn show there were some remarkably fine Chrysanthemums and the exhibits of evergreens by several nurserymen were particularly noteworthy. On several occasions Orchids in rich variety were finely exhibited; these flowers seem to be increasing in popularity and their culture is rapidly being mastered.

Fruits

It was an off season for fruit and this was reflected in the exhibits. With the exception of a fine display of hardy grapes at the autumn exhibition, fruit was far below the average. The exhibit of hardy grapes arranged in such manner as to be of educational value did great credit to that veteran horticulturalist, Dr. Walter G. Kendall.

Vegetables

There were one or two good exhibits staged, but on the whole the vegetables displayed were far from creditable. It is time this important subject received more attention at the hands of gardeners and exhibitors than it does at the present moment. It is true that the Dowse Memorial Cup was awarded and that a splendidly staged exhibit of fruit and vegetables from Mrs. Moses Taylor, Newport, Rhode Island, was awarded the President's Cup, but these exceptions only served to show the inferior quality of vegetable exhibits on the whole.

The judges again fulfilled their onerous duties to the satisfaction of all concerned and to the Committee on Prizes

Exhibit of the Chestnut Hill Garden Club, Awarded the Medal of the Pennsylvania Horticultural Society

it is a pleasant duty to place on record appreciation of the spirit of fairness, sound judgment and harmonious working of the Judges of Flowers, Fruit, and Vegetables throughout the year.

E. H. Wilson, *Chairman.*

Committee on the Products of Children's Gardens

The exhibition of the products of children's gardens was well attended. In spite of the heavy rain of the previous day the children brought in many flowers which were fresh and well arranged, also choice vegetables from their gardens. Their display was a good one. The extra space given by the opening of the smaller hall made it much easier for the judges, as the displays were better classified and arranged.

Mrs. Harriet Upham Goode held the interest of the boys and girls in her talk to them about birds and flowers in the afternoon of the opening day of the show.

I feel that I owe much to the different judges who helped us through the day, and especially to Mr. O'Brien, whose interest in the matter is unfailing, and to Miss Delia I. Griffin, who came from Hartford, Conn., for the occasion.

Marian Roby Case, *Chairman.*

Membership in the Massachusetts Horticultural Society

The constitution of the Massachusetts Horticultural Society fixes the annual dues at $2.00. For many years it was customary to charge an admission fee of $10.00, but by vote of the Trustees this requirement has been set aside for the entire year of 1928. Until the end of this year the only charge to new members will be $2.00, although this sum does not cover the cost to the Society of the publications which they will receive.

Life membership is obtained by paying the sum of $50.00, no further charge ever being required. Annual members who have paid the entrance fee of $10.00 in past years may become life members by paying $40.00 additional.

All members receive an identification card, which should be presented when books are borrowed from the library.

Any man or woman in any part of the country who is properly endorsed may make application for membership. New members are needed in order to increase the influence of the Society, and to broaden the scope of its work.

Application blanks may be obtained by writing to

The Secretary,
Horticultural Hall,
Boston, Mass.

NOTE:—The secretary is glad to have present members send in the names of friends who might like to become enrolled.

Members Whose Addresses Are Unknown

The Secretary has been unable to locate the life members of the Massachusetts Horticultural Society whose names are listed below. He does not know whether they are still living or have passed away. Any information about any of them will be greatly appreciated.

Names	*Last Address*
Agassiz, Mrs. George R.	Yarmouthport
Arnold, Mrs. George Francis	60 Davis Ave., Brookline.
Backer, Clarence A.	53 State St., Boston
Barry, John Marshall	595 Shirley St., Winthrop
Briggs, Wm. S.	Lincoln
Burnham, Miss Helen C.	57 Commonwealth Ave., Boston
Campbell, Francis	42 Langdon St., Cambridge
Cox, Simon F.	249 River St., Mattapan
Crafts, Miss Elizabeth S.	111 Commonwealth Ave., Boston
Dexter, George T.	66 Beacon St., Boston
Donald, William	Cold Spring Harbor, N. Y.
Donaldson, James	339 Washington St., Roxbury
Fairchild, Charles	New York City
Fraser, Charles E. K.	So. Natick
Frost, Irving B.	Belmont
Gardner, William Amory	22 Congress St., Boston
Hale, Mrs. Swinburne	8 East 8th St., New York
Hall, Jackson E.	423 Green St., Cambridge
Harris, Rev. Thaddeus William, Ph.D.	Littleton, N. H.
Hastings, Levi W.	Clyde St., Brookline
Hosmer, Oscar	Baldwinsville
Jeffries, John, 5th	3601 Walnut St., Philadelphia, Pa.
Kendall, Joseph R.	San Francisco, Calif.
Kirkland, Archie Howard	Reading
Lawrence, Amos A.	59 Commonwealth Ave., Boston
Leighton, George B.	Monadnock, N. H.
Livingston, Davis	Brush Hill Road, Readville
Luke, Otis H.	Brookline
McKay, Alexander	Pond St., Jamaica Plain
Maxwell, George H.	Newton
Metivier, James	Greenwood Land, Waltham
Morgan, George H.	New York
Morton, James H.	Huntington, L. I., N. Y.

Newton, Rev. William W.	55 Marion St., Brookline
Norman, Mrs. Guy	47 Beacon St., Boston
Norton, Charles W.	Allston
Rawson, Herbert W.	Arlington
Roberts, Miss Anna B.	Boston
Swett, Raymond W.	Brawley, Calif.
West, Mrs. Maria L.	Neponset
White, Mrs. Charles T.	213 Commonwealth Ave., Boston

Necrology

The following is a list of the members of the Massachusetts Horticultural Society whose deaths were reported during the year 1927:

Dr. William Sturgis Bigelow
William C. Brewer
Mrs. Henry F. Bryant
Alfred M. Bullard
Harry Burnett
J. Thomas Butterworth
Andrew Castle
S. I. Carpenter
Michael Cangiano
Miss Grace Cook
William M. Cotton
Mrs. Agnes G. Curtis
Leonard F. Cutter
Dr. Edwin A. Daniels
Clarence H. Denny
Mrs. Christopher R. Eliot
Mrs. William C. Endicott
Dr. Erica Erikson
Mrs. William G. Farlow
Austin F. Faulkner
Lucian J. Fosdick
Mrs. C. H. W. Foster
Robert H. Gardiner
William A. Gaston
Miss Virginia Hall
Thomas Hawken
Miss Kate Horsford
Edward C. Johnson
Rev. Thatcher R. Kimball
Guy Lowell
Perley Leslie
Nathan Matthews
Mrs. Arthur M. Milliken
Alexander Montgomery, Jr.
Mrs. Edward A. Newell
Walter M. Parker
Dr. Hosea M. Quinby
Miss Ruth G. Rich
Russell Robb
Edward W. Sanborn
Charles Sprague Sargent
Charles S. Smith
Dr. Henry R. Stedman
Charles W. Stone
Nathaniel H. Stone
Everell F. Sweet
Mrs. Russell Tyson
Mrs. Frank V. Thompson
Everett P. Wheeler
Miss Adelia Coffin Williams

Corresponding Member, John Dunbar

Massachusetts Horticultural Society

HONORARY MEMBERS

1900 Dr. Henry S. Prichett, New York.

CORRESPONDING MEMBERS

1925 D. M. Andrews, Boulder, Colorado.
1925 Rudolph D. Anstead, Director of the Agricultural College, Madras, India.
1921 J. F. Bailey, Director of the Botanic Gardens, Adelaide, South Australia.
1889 Dr. L. H. Bailey, Ithaca, N. Y.
1925 F. R. S. Balfour, Dawyck, Stobo, Peebleshire, Scotland.
1911 W. J. Bean, Royal Gardens, Kew, England.
1918 Désiré Bois, Paris, France.
1925 James Boyd, Haverford, Pa.
1925 I. H. Burkill, F. L. S., care the Royal Gardens, Kew.
1925 G. H. Cave, Darjeeling, India.
1922 Joseph Edgar Chamberlin, Boston, Mass.
1918 Léon Chenault, Orléans, France.
1921 Fred J. Chittenden, Director of the Royal Horticultural Society Gardens, Wisley, Ripley, Surrey, England.
1925 Woon Young Chun, Botanical Dept., Southeastern University, Nanking, China.
1921 Allister Clark, Glenara, Bulla, Victoria, Australia.
1921 Dr. Leonard Cockayne, Ngaio, Wellington, New Zealand.
1925 Henri Correvon, Geneva, Switzerland.
1925 G. W. Darnell-Smith, Director of the Sydney Botanic Gardens, Sydney, New South Wales.
1925 Henry F. du Pont, Winterthur, Delaware.
1925 Pierre S. du Pont, Wilmington, Delaware.
1887 Sir W. T. Thiselton Dyer, K.C.M.G., F.R.S., Witcombe, Gloucester, England.
1918 William C. Eagan, Highland Park, Ill.
1925 Charles C. Eley, M.A., F.L.S., Suffolk, England.
1925 I. B. Evans, C.M.G., Chief of Division and Director Botanical Survey, Pretoria, South Africa.
1925 G. Frazier, Ucuelet, Vancouver Island, British Columbia.
1925 W. G. Freeman, B.S.C., F.L.S., Director of the Botanic Garden, Trinidad.

1900 Beverly T. Galloway, Department of Agriculture, Washington, D. C.
1918 Professor N. E. Hansen, Brookings, South Dakota.
1925 Miss M. C. Hastie, Magnolia Gardens, S. C.
1911 Professor U. P. Hedrick, Geneva, N. Y.
1907 Dr. Augustine Henry, Dublin, Ireland.
1925 Joseph Hers, Tung Chang Hutung, Peking, China.
1925 William Hertrick, San Gabriel, California.
1925 Hermann A. Hessie, Weener, Germany.
1925 M. Robert Hickel, Versailles, France.
1925 A. H. Hill, Dundee, Ill.
1925 Arthur W. Hill, Royal Botanic Gardens, Kew, London, England.
1925 E. G. Hill, Richmond, Ind.
1925 E. Hillier, Winchester, England.
1897 J. W. Hoffman, Orangeburg, S. C.
1925 R. E. Horsey, Rochester, N. Y.
1925 Professor H. H. Hu, national Southeastern University, Nanking, China.
1925 Mrs. C. L. Hutchinson, Lake Geneva, Wisconsin.
1925 Hon. William M. Jardine, Secretary of Agriculture, Washington, D. C.
1925 Charles W. Knight, Oakdale, N. Y.
1925 The Rt. Hon. The Lord Lambourne, P.C., C.V.O., V.M.H., President of the Royal Horticultural Society, Essex, England.
1921 C. E. Lane-Poole, Canberra, Australia.
1925 C. C. Laney, Rochester, N. Y.
1875 G. F. B. Leighton, Norfolk, Virginia.
1911 M. Émile Lemoine, Nancy, France.
1925 Gerald W. E. Loder, M.A., F.L.S., Sussex, England.
1925 Donald MacGregor, Shanghai, China.
1925 Dr. Rudolph Marloth, Capetown, South Africa.
1925 Sir J. S. Maxwell, Pollokshaws, Scotland.
1925 The Rt. Hon. Sir Herbert E. Maxwell, Bart., F.R.S., D.C.L., Wigtownshire, North Britain.
1875 F. C. Maxwell, Geneva, N. Y.
1925 John McLaren, San Francisco, California.
1918 J. Horace McFarland, Harrisburg, Pa.
1925 Mrs. William Mercer, Doylestown, Pa.
1911 Wilhelm Miller, University of Illinois, Urbana, Ill.
1925 Rev. E. M. Mills, D.D., Laguna Beach, California.

1925 Dr. Kingo Miyabe, Director of the Botanic Garden, Sapporo, Japan.

1898 Sir Frederick W. Moore, Glasnevin, Dublin, Ireland.

1918 Dr. George T. Moore, Botanical Gardens, St. Louis, Mo.

1925 F. Cleveland Morgan, Montreal, Canada.

1887 Sir Daniel Morris, K.C.M.G., 14 Crabton Close, Boscombe, Hants, England.

1925 Mr. Joy Morton, Chicago, Illinois.

1919 M. Séraphin Joseph Mottet, Verrières-le-Buisson (Seine-et-Oise), France.

1925 F. R. Newbold, New York, N. Y.

1925 M. L. Pardé, Nogent-sur-Vernisson (Loiret), France.

1925 Monsieur Jules Pernet-Ducher, Venissieux-les-Lyons (Rhones), France.

1906 Lt.-Col. Sir David Prain, Warlingham, Surrey, England.

1925 Miss Isabel Preston, Ottawa, Canada.

1925 Johannes Rafn, Skovfrokontoret, Copenhagen, Denmark.

1894 Cavalière Enrico Raguso, Palermo, Sicily.

1925 Dr. Robert Ridgway, Olney, Illinois.

1906 Dr. Henry L. Ridley, care Royal Gardens, Kew.

1898 Benjamin Lincoln Robinson, Ph.D., Curator of the Gray Herbarium of Harvard University, Cambridge.

1875 William Robinson, East Grinstead, Sussex, England.

1921 L. Rodway, C. M. G., Government Botanist and Secretary, Botanic Gardens, Hobart, Tasmania.

1899 William Salway, Cincinnati, Ohio.

1925 Camillo Schneider, Charlottenburg, Germany.

1925 F. L. Skinner, Dropmore, Manitoba.

1925 Professor William Wright Smith, Royal Botanic Gardens, Edinburgh, Scotland.

1925 Dr. H. Spaeth, Berlin-Baumschulenweg, Germany.

1925 Dr. Otto Stapf, London, England.

1921 David Tannock, Superintendent, Botanic Gardens, Dunedin, New Zealand.

1893 Professor William Trelease, Urbana, Ill.

1921 M. Jacques de Vilmorin, Paris, France.

1912 Professor Hugo de Vries, University of Amsterdam, Amsterdam, Holland.

1918 F. Gomer Waterer, Bagshot, Surrey, England.

1925 Cyril T. White, Government Botanist, Brisbane, Queensland, Australia.

1919 J. C. Williams, Gorran, Cornwall, England.

1906 Miss Ellen Willmott, Great Warley, Essex, England.
1911 E. H. Wilson, Jamaica Plain, Mass.
1921 Gurney Wilson, Richmond, Surrey, England.
1925 John C. Wister, Germantown, Pa.
1901 Professor L. Wittmack, Secretary of the Royal Prussian Horticultural Society, Berlin.
1925 Major A. C. T. Woodward, Bewdley, Worcestershire, England.

NEW MEMBERS IN 1927

Abbott, Mrs. Chester G., Jamaica Plain.
Abbott, Mrs. Edville G., Portland, Maine.
Abbott, Miss Elizabeth T., Cambridge.
Abbott, Mrs. Harlan P., Brookline.
Abbott, Mr. Holker, Wellesley Hills.
Adams, Elmer S., Stoughton.
Adams, Mrs. Grace C., Dedham.
Adams, Mrs. Walter O., Annisquam.
Agassiz, Mrs. R. L., Hamilton.
Albro, Mrs. Frank T., Fall River.
Alexander, Mrs. J. P., Newton Highlands.
Alford, Mrs. Edward B., Brookline.
Alger, N. Alonzo, South Easton.
Allanach, Miss Edith, Marion.
Allen, Mrs. Bernard M., Cheshire, Conn.
Allen, Miss Caroline K., Jamaica Plain.
Allen, Mr. J. Walter, Newtonville.
Allen, Mrs. Robert C., Worcester.
Alling, Mrs. A. N., New Haven, Ct.
Ames, Rev. Charles B., Groton.
Ames, Mrs. Robert R., Wayland.
Ammann, Miss Marguerite, Malden.
Anderson, Adolph, Campello.
Anderson, Mr. Carl G., Cape Elizabeth, Maine.
Anderson, Mrs. Emil K., Arlington.
Anthony, Mrs. Charles W., Atlantic.
Anthony, Mrs. Harold H., South Swansea.
Appleton, Mrs. Alice K., Haverhill.
Appleton, Charles A., North Andover.
Appleton, Mrs. W. Cornell, Newton Centre.
Aran, Miss Teresa F., Camden, Maine.
Armstrong, Mr. Joseph, West Somerville.
Atkins, Mrs. Edwin F., Belmont.
Attwill, Mrs. Augusta H., Lynn.
Atwood, Mrs. Donald, Bridgewater.
Atwood, Mrs. F. E., West Roxbury.
Atwood, Miss Margaret, Quincy.
Aubin, Mrs. J. Harris, Newton.
Auryansen, Mrs. George W., Newtonville.
Austin, Mrs. Fred W., Quincy.
Ayer, Mrs. Charles F., Boston.
Ayer, Mr. Charles F., Boston.
*Ayling, Mr. Charles L., Centreville.
Bacon, Mrs. Albert, Bedford.
Bacon, Mr. Arthur Williston, Allston.
Bailey, Miss Theodora, Boston.
Bailey, Mrs. William M., Malden.
Baker, Miss Frances F., Dedham.
Ball, Mr. Willard J., Brookline.
Barbarin, Mrs. Gabrielle, Cranbury, N. J.
Barnard, Miss L. F. S., Boston.
Barnes, Mrs. Florence B., Kingston
Barney, Mrs. H. B., Hingham.
Barrett, Mr. George L., Woburn.
Barrett, Mr. Gordon E., Arlington.
Barrett, Mrs. Walter M., Melrose.
Barry, Miss Alice E., Roxbury.
Bartlett, Mrs. Robert E., Oakland, Maine.
Baston, Mr. James W., Brookline.
Bates, Mrs. E. H., Ashland.
Battelle, Mr. Judson S., Dover.
Bauer, Mr. Samuel F., Wilton, N. H.
Beals, Mrs. A. E., North Weymouth.
Beals, Mrs. George C., Winchendon.
Belknap, Mrs. Charles, Boston.
Bemis, Miss Ruth, Chestnut Hill.
Berkhahn, Mr. Fritz, Newton Centre.
Berry, Miss Helen A. H., Waltham.
Berry, Miss Susie A., Portland, Maine.
Betts, Mr. William A., Milton.
Bicknell, Mrs. Ralph E., Swampscott.
Bigelow, Mrs. Lewis S., North Andover.
Bill, Mrs. Alexander H., Cambridge.
Bill, Mrs. Grace, Malden.
Bisco, Mr. Herbert H., Leicester.
Bishop, Mr. Elias, Newton Centre.
Bittinger, Mrs. Charles, Brookline.
Blake, Dr. John Bapst, Brookline.
Blanchard, Mrs. Alice M., Gloucester.
Blanchard, Howard C., Cumberland Centre, Maine.
Blanchard, Miss Katherine A., Danvers.
Blaney, Mr. Fred J., West Roxbury.
Blood, Miss Helen, Lynn.
Blood, Miss Minnie E., Malden.
Blundell, Mr. L. L., Brookline.
Boerner, Mr. Eugene S., Newark, N. Y.
Bolles, Miss Dorothy F., Boston.
Bonazzoli, Mr. Dante, Westboro.
Bond, Mrs. F. D., Newton Centre.
Booker, Miss Butie, Abingdon, Va.
Booth, Mrs. Thomas B., Newton Centre.
Borland, Mrs. Charles R., Concord.
Boshco, Mr. Peter K., West Medford.
Boswell, Mrs. Anne C., Westboro.
Bosworth, Arthur S., Portland, Maine.
Bowman, Miss Alice M., Bridgewater.
Bowman, Miss Mary E., Bedford.
Boyle, Miss Mary J., Lowell.
Bradlee, Mrs. F. B. C., Marblehead.
Bradlee, Mrs. Stanwood G., Chestunt Hill.
Bradley, Miss Mary T., Boston.
Bradstreet, Miss Martha E., Beverly.
Brainerd, Mrs. Arthur M., Rockland.
Bray, Mrs. William C., Newton Centre.
Brayton, Mrs. A. L., Newton Centre.

Bright, Mrs. Elmer H., Cambridge.
Brighton, Mr. Albert, Peterborough, N. H.
Broad, Miss Gertrude F., Gloucester.
Brooks, Mr. Ernest E., Framingham.
Brown, Miss Olie Lawrence, Malden.
Brown, Mr. Rolla W., Newton.
Brown, Jr., Mrs. Winthrop, Cambridge.
Buck, Mrs. William T., Melrose Highlands.
Buckley, Mrs. Mary E., Atlantic.
Buntin, Mrs. George, Arlington.
Burke, Mr. Paul F., Brookline.
Burlingame, Mr. Howard Benjamin, West Somerville.
Burnham, Mrs. George A., Cliftondale.
Burnham, Mrs. H. A., Boston.
Burnham, Miss Mary Porter, Essex.
Butterworth, Mrs. C. F., Hopedale.
Byrd, Mrs. Edgar L., Ipswich.
Cabot, Mrs. Elizabeth L., Boston.
*Cabot, Mrs. Samuel, Jamaica Plain.
Cabot, Mrs. Sewall, Brookline.
Calder, Miss Ruth, Newtonville.
Callan, Mrs. John, Wellesley.
Calver, Mrs. Arthur W., Newton Centre.
Campbell, Jr., Mrs. Robert, Swampscott.
Canavan, Mrs. Walter F., Boston.
Carbee, Miss Dora, Stoneham.
Carey, Mrs. James H., Waban.
Carles, Mrs. George H., Haverhill.
Carne, Mrs. Carrie E., Adams.
Carter, Mrs. William Lyman, Lexington, Ky.
Carvell, Miss Bertha, Newton.
Case, Mr. Horace N., Hyde Park.
*Casselberry, Mrs. Clarence M., Newton.
Caswell, Mr. F. James, Haverhill.
Caughey, Mrs. Rachel E., Antrim, N. H.
Chaffee, Miss Mary L., Franklin Park.
Chamberlain, Mrs. Anne B., Brookline.
Chamberlin, Jr., Mrs. Edwin, Cambridge.
Chamberlin, Mrs. Fred H., Newton Centre.
Champlin, Mr. Ira J., Wollaston.
Chandler, Mrs. Geo. H., Manchester, N. H.
Chandler, Mr. George W., Newtonville.
Chapman, Miss E. D., Cambridge.
Cherrington, Miss Mary Edna, Hyde Park.
Chesterton, Mrs. A. W., Brookline.
Childs, Miss Marguerite, Groton.
Church, Mrs. Arthur W., Newtonville.
Church, Dr. Harry M., Gardiner, Maine.
Chynoweth, Mr. James, St. Albans, Vt.
Clark, Mrs. Dana, Andover.
Clark, Mrs. E. B., Boston.
Clark, Mrs. Frances, Bridgewater.
Clark, Mrs. George H., Boston.
Clark, Mrs. Grace M., Roxbury.
Clark, Mrs. Wm. E., Sharon.
Clarkson, Mr. Wm. D., East Greenwich, R. I.
Clarridge, Mr. Arthur P., Milford.
Clarridge, Mr. Fred W., Milford.
Clarridge, Mrs. Myrtle J., Milford.
Clement, Miss Alice W., Boston.
Clifford, Mr. Joseph M., Roxbury.
Clisby, Mrs. Ella, South Braintree.
Coath, Miss Annie L., Melrose Highlands.
Cobb, Mrs. John E., Waltham.
Cobb, Miss Josephine, Bridgewater.
Cochrane, Mrs. Della E., Billerica.
Cochrane, Mr. John, Billerica.
Coffin, Mrs. A. B., Dorchester.
Cole, Mrs. Benjamin, Chelmsford.
Cole, Miss Frances R., Chester, Va.
Collier, Mrs. Forrest F., Cambridge.
Collins, Mr. George Theophilus, Hollywood, Calif.
Collupy, Miss Cora D., Arlington Heights.
Colson, Mrs. Harold Roy, Watertown.
Comer, Mr. Ernest A., Salem.
Comer, Mrs. Sarah R., Newton Centre.
Conant, Miss Jennie F., Melrose.
Conant, Mrs. Roger B., Dedham.
Conwell, Mr. H. Ernest, Milton, Dela.
Cook, Miss Mabel P., Lexington.
Coolidge, Jr., Mr. John T., Readville.
Cooper, Mrs. Frank I., Wayland.
Cooper, Jr., Mr. Thomas, Weston Newton.
Copeland, Mrs. Edgar M., Lynn.
Copeland, Mr. Stuart B., Bangor, Maine.
Cormier, Mr. Francis, Newton.
Cottle, Mrs. Clara I., Woburn.
Cotton, Miss Bessie Luette, Brighton.
Cowdery, Mrs. William R., Winchester.
Craig, Mr. Norman T., Weymouth.
Craigin, Dr. George A., Boston.
Cram, Miss Mary M., Waltham.
Creaney, Mrs. F. H., Woburn.
Cristman, Mr. Clyde E., Ashland.
Crocker, Jr., Mr. Joseph C., Brockton.
Cronk, Mrs. Ida Foster, Chestnut Hill.
Cronk, Mrs. Nettie M., Salem Centre.
Crowell, Mr. Fred, Neponset.
Crowell, Mr. Lester E., No. Chatham.
Crowell, Mrs. Rufus, Winchester.
Cummings, Mrs. Hattie E., Somerville.
Cummings, Miss Margaret, Boston.
Cummings, Mr. Marshall F., Nashua, N. H.
Cummings, Mr. W. W., Belmont.
Cunliffe, Miss Selina, Methuen.
Curtis, Miss Lillian F., Marlboro.
Curtis Mr. Thorold S., Stoughton.
Cutter, Mr. Leonard F., Boston.
Dahl, Miss Elizabeth, Dorchester.
Dale, Rev. Oliver B., Cambridge.

Dalrymple, Mr. George E., Haverhill.
Darcey, Mr. Thomas J., Belmont.
Davis, Mrs. Francis, Belmont.
Davis, Miss Grace E., Wellesley.
Davis, Miss Lucy, Cambridge.
Davis, Mr. Malcolm B., Arlington.
Davis, Mrs. Myron, Jr., Malden.
Davol, Mr. Ralph, Taunton.
Dean, Mr. L. J., Malden.
Dean, Mrs. Luther, Taunton.
Dean, Mrs. Walter W., Dedham.
Dear, Mr. Robert Fraser, Manchester, N. H.
Dearborn, Miss Sarah A., Brookline.
Demeter, Mr. Harry C., Boston.
Denham, Mrs. John E., Waban.
Denner, Mr. Herbert J., Needham.
Denyven, Mrs. George W., Dorchester.
Derrick, Rev. Thomas H., Peabody.
Devlin, Mrs. Edward E., Jr., Waban.
Dickson, Mrs. Marguerite S., Belmont.
Dike, Miss Cora E., Stoneham.
Dodge, Mr. Chester E., Billerica.
Dodge, Mrs. N. Phillips, Hyde Park.
Dodkin, Alfred T., Foxboro.
Doherty, William J., Woburn.
*Donald, Mrs. Malcolm, Mattapan.
Donaldson, Mrs. J. Frank, Salem.
Donovan, Mr. Francis, Peterborough, N. H.
Doran, Miss Eleanor A., Lexington.
Douglass, Mrs. Alfred W., Brookline.
*Dow, Mrs. Flora W., Reading, Vermont.
Dowey, Mr. Thomas, Wayland.
Doyle, Miss Mary A., Danvers.
Draper, Mrs. Joseph P., Canton.
Dreist, Carl, Roxbury.
Driscoll, Mrs. F. J., West Newton.
Driver, Miss Emily F. S., Weston.
Drowne, Mrs. Edwin, Newton Highlands.
Ducey, Mrs. John J., Brookline.
Duffy, Mr. Michael, Roslindale.
Dunlap, Mrs. Flora E., Billerica.
Dwight, Miss Marion McG., Brookline.
Dyke, Mrs. Arthur C., Bridgewater.
Eakins, Miss Margaret I., Yarmouth, Nova Scotia.
Eastman, Miss Maria W., Ashmont.
Eaton, Mrs. C. F., Wellesley Hills.
Eaton, Miss Ethel M., Boston.
Eaton, Mrs. Henry C., Waltham.
Eaton, Mrs. J. Howarth, Sharon.
Eckhardt, Mr. Ernest E., Dover.
Edelman, Mr. Samuel, Philadelphia, Pa.
Ekstrom, Miss Helen M., Boston.
Eliot, Mr. Christopher R., Cambridge.
Elkins, Mrs. Port B., Winchester.
Elliott, Miss Bessie, Belmont.
Elliott, Miss Emma, Sharon.
Elliott, Mr. Walter S., Arlington Heights.
Ellis, Mrs. E. L., Milton.
Ellis, Mrs. George W., Boston.
Ellison, Miss Agnes S., Duxbury.
Emerson, Mrs. Clara B. C., Brockton.
Emerson, Miss Evelyn, Boston.
Emerson, Mr. K. B., Sharon.
Emerson, Mrs. L. E., Cambridge.
Erath, Mr. H. J. Newton Highlands.
Erickson, Mrs. Clifton C., Auburndale.
Eskrigge, Mrs. Frank T., Newton Centre.
Estabrook, Mr. Harry F., Boston.
Eversole, Mrs. George E., Groton.
Fabyan, Mrs. Marshall, Boston.
Fairbnaks, Mr. Charles L., Southborough.
Fairbanks, Mr. Frank, Natick.
Fall, Mrs. Charles G., Boston.
Farley, Miss Christine, Cambridge.
Farnum, Mrs. Frank S., Brockton.
Fay, Mr. Henry H., Concord.
Fay, Mrs. Henry H., Boston.
Fay, Mr. William H., Peabody.
Fay, Mrs. Willis Ward, Cambridge.
Feeney, Mrs. Joseph, West Newton.
Ferguson, Mrs. Crawford, Bridgewater.
Fernald, Mrs. Horace, Abington.
Ferry, Miss Mabel, Hingham.
Field, Mrs. Mary L., Winter Hill.
Fielding, Mrs. E. M., Chestnut Hill.
Finn, Mrs. Joseph T., Dedham.
Fischer, Miss A. M., Ballardvale.
Fisher, Mrs. Samuel L., Beach Bluff.
Fisher, Mrs. Thomas L., Leominster.
Fiske, Mrs. Gardiner H., Boston.
*Fiske, Mrs. Elliot W., Waltham.
Fitz, Mrs. Charles N., Newton Centre.
Fletcher, Mrs. Arthur G., Canton.
Folger, Mrs. Lilias, Newton Centre.
Folk, Mr. G. Edgar, Andover.
Folts, Miss Gertrude Irving, Winchester.
Forbes, Mrs. Elmer, Weston.
*Ford, Mrs. Henry, Dearborn, Mich.
Ford, Mr. Joseph B., Cambridge.
Fowler, Mr. William Everett, Westborough.
Fox, Miss Mildred H., Roxbury.
Fox, Miss Sarah E., Cohasset.
Fox, Mr. Walter S., Jr., Hingham.
Freeman, Mrs. Alice R., Everett.
French, Mrs. Samuel P., West Lebanon, N. H.
Frisch, Mr. LeRoy G., Piqua, Ohio.
Frost, Mr. Ernest, Lincoln.
Frost, Mr. G. Howard, West Newton.
Frost, Mrs. Herbert S., Upham's Corner.
Frye, Mr. A. A., Lowell.
Fuller, Dr. Ernest P., Lawrence.
Fuller, Mrs. George S., Lawrence.

Fuller, Mrs. Harriet W., North Andover.
Fuller, Mrs. Willard P., Wrentham.
Fullerton, Mr. Benjamin A., Saugus.
Gage, Mrs. J. Arthur, Lowell.
Galvin, Mr. John, Malden.
Gammans, Miss Edith, Newton Centre.
Garceau, Mrs. Albert, Boston.
Gardella, Mr. John L., Roxbury.
Gardner, Miss Alice M., Boston.
Garland, Dr. Joseph, Brookline.
Garrod, Mrs. J. A., West Somerville.
Gay, Mrs. Mollie L., Malden.
Geddes, Miss Lillian M., Boston.
Gerould, Miss Theodora A., Bedford.
Getty, Mrs. Henry A., Newton Centre.
Gilbert, Mr. G. H., Segreganset.
Gilbert, Miss H. C., Milton.
Gilliland, Mrs. W. L., Cambridge.
*Gilman, Mr. O. B., Boston.
Gilmer, Mrs. Albert H., West Medford.
Gilmer, Mr. Frank, South Bend, Ind.
Gilmore, Mrs. Edward S., Newtonville.
Gilmour, Mrs. W. Wesley, West Somerville.
Gilpin, Mrs. John C., Philadelphia, Pa.
Gleason, Mr. E. L., Framingham.
Goldschmidt, Mrs. Louis, Melrose Highlands.
Goldthwaite, Mr. Vincent, Wellesley.
Goodrich, Mrs. Wallace, Boston.
Goodwin, Mr. Harvey H., Leominster.
Goodwin, Mrs. William B., Lowell.
Gordon, Mr. Charles B., Newton Centre.
Gorely, Jr., Mr. Charles P., Wellesley Hills.
Goss, Mrs. Annie Pemberton, Bradford.
Gosselin, Mrs. Louis V., East Milton.
Gowen, Miss Elizabeth F., Braintree.
Graves, Mrs. Harold S., Weston.
Graves, Miss Marion G., Cliftondale.
Gray, Jr., Mrs. Thomas H., Brookline.
Green, Mr. Ralph B., Dedham.
Greene, Mrs. Thomas E., Danvers.
Greenleaf, Mr. George F., Newton Centre.
Greenwood, Dr. Arthur M., Boston.
Greever, Mrs. Harvey S., East Lynn.
Griffin, Mrs. Frank D., Gloucester.
Griffith, Miss Josephine, Milton.
Grinnell, Mr. Henry F., Fall River.
Grinnell, Mrs. Russell, Providence, R. I.
Grover, Mr. Oscar W., Revere.
Guiddry, Miss Florence A., Danvers.
Guild, Miss Helen, Boston.
Gunther, Miss Mary, Dracut.
Hadaway, Mrs. Julia P., Boston.
Hadd, Mr. V. A., Fitchburg.
Hadley, Dr. Amos I., Wayland.
Hadley, Rev. Rubens R., Newtonville.
Haight, Mr. Louis P., Boston.
Hall, Mrs. Emeline G., Winchester.
Hall, Mrs. Melville C., Sharon.
Hall, Mrs. Ralph N., Newton.
Hallowell, Miss Emily C., Norwood.
Ham, Miss Ethel, Newtonville.
Hamilton, Miss S. Alice, Medford.
Hamlin, Mr. B. Nason, Dedham.
Hamilton, Miss Sarah H., Hyde Park.
Hancock, Mrs. James H., Hudson.
Hanna, Mrs. Anthony G., Holbrook.
Hanna, Mr. William B., Newtonville.
Hannappel, Miss Louisa J., Andover.
Hanscom, Miss Marion, Winter Hill.
Hanson, Mrs. William, State Farm.
Harris, Mr. Frank S., Dedham.
Harris, Mrs. Henry W., Chestnut Hill.
Harticon, Mrs. Wm. F., Central Village.
Hartshorne, Mr. C. L., Newtonville.
Hartshorne, Mr. W. O., Melrose.
Harwood, Mrs. Bradford, Winchester.
Hasey, Mrs. Frederick, Bridgewater.
Haskell, Mrs. Albert B., Fitchburg.
Haskell, Mrs. Lillian R., Lynn.
Hatch, Mr. Henry T., Gloucester.
Hathaway, Mrs. E. F., Wellesley Hills.
Hathaway, Miss Ellen R., New Bedford.
Hauthaway, Mr. C. L., Brookline.
Haven, Mrs. Margaret B. T., Cohasset.
Hawes, Mrs. Alfred T., Lynn.
Hawkridge, Mrs. Leslie D., Newton Centre.
Haworth, Mr. Christopher, Newton Centre.
Hayn, Mr. Ernest M., Springfield.
Hayward, Mr. Arthur H., Weymouth.
Hazzard, Mrs. R. P., Gardiner, Maine.
Heard, Mr. Frederick, Plymouth.
Heath, Mr. Edward H., Swampscott.
Heath, Mrs. Geneva J., Wakefield.
Henderson, Mr. Walter E., Jamaica Plain.
Hersom, Mrs. Frank S., Chelsea.
Hewes, Mrs. Thomas, Farmington, Conn.
Hewett, Mrs. Roy, Newton Centre.
Hewins, Mrs. Parke W., Wellesley Hills.
Hicks, Mrs. Winnifred M., Middletown.
Hiesley, Mr. Thomas E., Hopewell Junction, N. Y.
Higginson, Mrs. Charles, Cohasset.
Hill, Mrs. C. L., Jamaica Plain.
Hill, Mrs. Fred, Stoneham.
Hilliard, Mr. R. L., Framingham.
Hinkley, Mrs. R. H., Dedham.
Hobbs, Mrs. Samuel T., Worcester.
Hodgkins, Mrs. O. H., Roslindale.
Holland, Mrs. Mabelle F., Buzzards Bay.
Hollingsworth, Mrs. Mark, Boston.
Hollis, Mrs. E. Stanwood, Braintree.
Hollis, Miss Mary J., Belmont.
Holmes, Mrs. Hector McI., Waban.
Holmes, Miss Helen, Kingston.
Holmes, Mr. Philip S., Gardner.
Holmes, Mr. Wellington, Halifax.

Holmes, Mr. William B., Gardner.
Homerberg, Mr. V. O., Cambridge.
Hood, Mr. A. N., Chestnut Hill.
Hood, Mrs. A. N., Chestnut Hill.
Hooke, Mrs. William F., Castine, Maine.
Hooker, Mr. F. Brewster, Hingham.
Houle, Mrs. F. T., Amesbury.
Howard, Mr. A. E., Worcester.
Howard, Mr. Fred C., Stoneham.
Howden, Mr. Norman, Boston.
Howe, Mr. Frederick L., Stoneham.
Howe, Mrs. Frederic W., Swampscott.
Howe, Miss Lois Lilley, Cambridge.
Howe, Mrs. Mary E., Melrose.
Howe, Mrs. O. H., Cohasset.
Howe, Mr. O. R., Jr., South Weymouth.
Howlett, Mrs. E. L., Annisquam.
Hugo, Mrs. G. B., Jamaica Plain.
*Hunnewell, Mr. Arnold W., Wellesley.
*Hunnewell, Mrs. Walter, Wellesley.
Hunt, Mrs. Albert F., Bridgewater.
Hunt, Mrs. Brenelle, Bridgewater.
Hunt, Mr. Franklin S., Boston.
Hunter, Mrs. Thomas, Larchmont, N. Y.
Huntress, Miss Ethel, Cambridge.
Huntress, Mrs. Franklin E., Newton.
Huse, Mrs. Charles P., Belmont.
Hyde, Miss Louvan W., North Cohasset.
Hyland, Mr. John F., East Weymouth.
Ingram, Mr. C. Craig, New Haven, Conn.
Jackson, Miss Anne W., Brookline.
Jackson, Mrs. Delbert L., Brookline.
Jackson, Mrs. Eugene B., Brookline.
Jacobus, Mr. Martin R., Ridgefield, N. J.
Jameson, Mrs. James W., Concord, N. H.
Jannsen, Mr. Ernest, Douglaston, Long Island, N. Y.
Jaques, Miss Helen, Milton.
Jefferson, J. P., Santa Barbara, Calif.
Jenks, Mr. Henry Angier, Cambridge.
Jenney, Mrs. Paul G., Brookline.
Jennings, Mrs. John F., Longmeadow.
Jepson, Miss Flora, Cambridge.
Johnson, Mrs. Frances M., Roslindale.
Johnson, Mrs. J. B., Patterson, N. J.
Johnson, Miss J. E., West Somerville.
Jones, Miss Alice Gertrude, Billerica.
Jones, Mr. D. W., Melrose.
Jones, Mrs. Edwin J., Bedford.
Jones, Mrs. Matt B., Newton Centre.
Jordan, Mrs. Charles F., Bridgewater.
Joseph, Mrs. Arthur, Cincinnati, Ohio.
Joy, Miss Alice, Winchester.
Justice, Mr. Charles H., Newton.
Keay, Miss Ida C., Boston.
Keith, Miss Adeline, Bridgewater.
Kelley, Mrs. Anthony, Winchester.
Kellogg, Mrs. Frances E. Osborne, Derby, Conn.
Kempton, Mrs. Harryett M., Boston.
Kendall, Mrs. C. F., Newton Centre.
Kennedy, Mrs. Mary H., East Hartford, Conn.
Kenrick, Miss Jeannie B., Newton.
Kent, Miss Bernice E., Lancaster, N. H.
Kent, Mr. W. Stedman, Wakefield.
Kilbourne, Miss Katherine E., Chelmsford.
Kilch, Miss M. D., Boston.
Kilham, Miss Elizabeth H., Beverly.
Killy, Miss Lucy H., Eastport, Maine.
Kimball, Mrs. Charles, Bedford.
Kimball, Mrs. Harriet B. W., E. Braintree.
Kimball, Mrs. James H., Hingham.
Kimball, Miss Martha G., Bradford.
Kincaid, Mrs. E. D., Lawrence.
King, Mrs. H. P., Jr., Boston.
King, Mrs. Virginia, Gloucester.
Kinson, Mr. Harry A., Georgetown.
Kleiser, Mrs. George W., San Mateo, Calif.
Knights, Mr. Willard, Newburyport.
Kuhn, Miss Anna W., Andover.
Kurt, Mr. Franklin T., West Newton.
Ladd, Miss Emma L., Arlington.
Lane, Miss Rachel P., Boston.
Law, Mr. Hervey F., Boston.
Lawrence, Mrs. Ralph R., Brookline.
Leach, Mrs. Cora M., Bridgewater.
Leatherbee, Miss Eleanor W., West Newton.
Leatherbee, Mrs. Frederick K., Hatchville.
Leatherbee, Mrs. Robert W., Hatchville.
Leavitt, Mrs. Alice D., Winchester.
Leeping, Mrs. Anna, Neponset.
Leland, Miss Cora J., Newton Upper Falls.
Lennon, Mr. Patrick, Hingham.
Leonard, Miss Edna, East Bridgewater.
Leonard, Mrs. Royden C., North Easton.
Leslie, Mrs. Perley, Haverhill.
Levenson, Mr. Ellis L., Roxbury.
Lewenberg, Mrs. Solomon, Brookline.
Lewis, Mrs. Arthur L., Newton Centre.
Lewis Jr., Mrs. George, Sherborn.
Lewis, Mr. Harry C., Waban.
Lewis, Mrs. Weston K., Swampscott.
Libbey, Mrs. Wilfred, Westboro.
Libby, Mrs. Gracia D., Roxbury.
Little, Mrs. Theodore W., Cohasset.
Little, Mr. William W., West Roxbury.
Littlefield, Miss Alice L., Dorchester.
Loizeaux, Mrs. Jean J., Plymouth, N. H.
Lommerse, Mr. William F., Brighton.
Lord, Mrs. H. C., Brookline.
Lothrop, Mrs. Saba, Bridgewater.
Lovett, Miss Caroline A., West Newton.
Loveland, Mrs. Fred H., Newton.

Lovewell, Mrs. Clara A., Melrose.
Luce, Mrs. D. S., Canton.
Lutz, Mr. Eugene, Lawrence.
Lynch, Miss Helena F., South Boston.
Lyons, Miss Katherine, Boston.
Macandrew, Mrs. David C., Braintree.
MacDermind, Mr. C. A., Boston.
MacDonald, Miss Helen V., Chelsea.
MacKendrick, Col. W. G., Oakville, Ont. Canada.
MacKenzie, Mrs. Evelyn M., Cambridge.
Mackie, Mrs. Wm. A., New Bedford.
Mackintosh, Mr. Newton, Roxbury.
MacLeod, Miss Elspeth V., Cambridge,
Macomber, Mr. Alton I., New Bedford.
Madden, Mr. M. Lester, Newton Center.
Mallus, Miss May Thacher, Brookline.
Maltheis, Mr. Frederic W., South Duxbury.
Maltheis, Mrs. Frederic W., South Duxbury.
Mann, Mrs. Charles, Boston.
Mann, Mr. Horace, Jamaica Plain.
Manning, Miss Eleanor, Lynn.
Mansfield, Mrs. Harold B., Waltham.
Marbaker, Dr. N. D., Boston.
Marsh, Mr. Daniel L., Brookline.
Marshall, Mr. G. G., Cleveland, Ohio.
Marshall, Mrs. L. W., Cambridge.
Marshall, Mrs. Lewis C., Norwood.
Martyn, Mr. George J., Boston.
Marvin, Mrs. Claude R., Marshfield Hills.
Marvin, Mrs. Harold A., Hingham.
Mason, Mrs. C. O., No. Attleboro.
Matson, Mr. Willis B., Marblehead.
Maynard, Mrs. H. W., Belmont.
Maynard, Mrs. W. J., Patterson, N. J.
Mayo, Miss Lilian Shreve, Wellesley.
McCarron, Mrs. Joseph C., Auburndale.
*McClellan, Miss Lillian, So. Hanson.
McDermott, Mrs. Wililam C., Dorchester.
McDonough, Mr. James A., West Roxbury.
McFarland, Mr. J. Horace, Harrisburg, Pa.
McGrath, Mr. James, Boston.
McIntosh, Mrs. Emma F., Mattapan.
McKay, Miss E. Marjorie, Cambridge.
McKenzie, Mrs. Clarence J., Winthrop.
McMcKenzie, Mr. John D., Buzzards Bay.
McKiernan, Mr. Hugh, Roxbury.
McLane, Miss Bessie L., Reading.
McLean, Mr. W. H., Cambridge.
McNeeland, Miss Edna, Bridgewater.
McPhee, Mr. Clement S., Meshanticut Park, R. I.
Mead, Mrs. Frederick S., Brookline.
Mead, Mrs. Theodosia B., Arlington.
Medding, Mrs. W. F., Winchester.
Mehaffey, Mrs. George, Brookline.
Mercer, Mr. John T., Andover.
Merrick, Mr. F. H., Concord, N. H.
Merrill, Mrs. Amy P., Danvers.
Merrill, Mr. Edward, West Roxbury.
Merrill, Mr. William E., Brookline.
Metcalf, Mr. Louis P., Arlington.
Metherall, Miss Juanita, Wollaston.
Michael, Mr. Arthur, Newton Centre.
Miller. Mrs. Clarence C., Winchester.
Miller, Mrs. H. A., Newton Highlands.
Miller, Mrs. Herbert H., Norwood.
Millett, Mrs. G. Donne, Cambridge.
Milliken, Mr. Arthur N., Boston.
Milne, Mrs. Mary A. F., Wellesley.
Mirick, Miss Edith A., West Roxbury.
Mitchell, Miss Mary, Billerica.
Mixter, Mrs. Charles A., Brookline.
Moffett, Mr. Raymond, Georgetown.
*Moltke, Count Carl, Klampenborg, Denmark.
Montague, Mr. David T., Boston.
Montanari, Mrs. Helen, Newton.
Montgomery, Mr. Alexander P., Hyde Park.
Moody, Mr. Ambert G., East Northfield.
Moore, Miss Christine E., Thomaston, Me.
Moore, Mrs. W. S., Dorchester.
Moran, Mr. Burt, Brookline.
Morey, Mr. William E., Shrewsbury.
Morgan, Mrs. Charles F., Worcester.
Morgan, Mrs. Paul B., Worcester.
Morley, Mr. Ephraim, Providence, R. I.
Morrill, Mrs. Frank A., Norwood.
Morrison, Mrs. Edith F., Braintree.
Morrissey, Mr. John, West Lynn.
Morse, Mrs. Albert F., Canton.
Morse, Mrs. Henry B., Danvers.
Morse, Mrs. Marguerite W., Nest Newton.
Morse, Mrs. Wm. G., Cambridge.
Morss, Mr. Charles H., Needham.
Moss, Mrs. Charles Whitson, Brookline.
Moss, Mrs. J. D., Lynn.
Moulton, Mrs. Grace E., West Peabody.
Moulton, Mrs. Marialis W. H., Boston.
Mower, Mrs. Walter J., Dorchester.
Moyer, Mr. O. C., Reading.
Muir, Dr. Laura H., Roslindale.
Muir, Mr. William E., Roslindale.
Murdock, Mrs. John J., Larchmont, N. Y.
Murray, Mrs. Albert N., Melrose.
Myers, Miss Claire I., Boston.
Nasmund, Miss Blanche, Chestnut Hill.
Nason, Mr. Carlisle, Wellesley.
Neff, Mr. Robert P. K., Dedham.
Nelson, Mr. Charles E., Boston.
Nelson, Mrs. Mae L., Chelsea.
Newcomer, Mr. Walter S., Dorchester.

Newhall, Mrs. Guy, Lynn.
Newhall, Mrs. U. J., Lynnfield.
Newton, Miss Cora A., Westboro.
Newton, Mrs. Edwin M., Boston.
Newton, Mrs. Elizabeth S., Newton Highlands.
Newton, Mrs. G. F., Cohasset.
Nichols, Mrs. Chester W., Newton Centre.
Nichols, Mrs. George V., East Braintree.
Nightingale, Miss Nina, Boston.
Nordquist, Mrs. Frode, Ipswich.
Norman, Mrs. William E., Groton.
Northington, Mrs. Merrill P., Birmingham, Ala.
Northrup, Mrs. Arthur J., Swampscott.
Norton, Mrs. Jerome B., Roslindale.
Noterman, Mr. Gaston, Malden.
Nunn, Mrs. Charles P., Lexington.
Nutting, Mr. George Hale, Boston.
Nye, Mrs. Arthur E., Worcester.
Nye, Mrs. E. F., Belmont.
Ober, Miss Eleanor F., Boston.
O'Brien, Miss Honora F., Cambridge.
O'Connor, Miss Eleanor C., Lawrence.
Ogan, Mr. Walter J., Dorchester.
O'Leary, Miss Eleanor, Dorchester.
Olsen, Miss Hilda N., Arlington.
Ordway, Mrs. Warren, Newton Centre.
Osgood, Mrs. Herbert L., Springfield.
Osgood, Mrs. Isaac, North Andover.
O'Shea, Mrs. Lucy W., Stoneham.
Ostler, Mr. John, Methuen.
Otis, Mrs. Herbert Foster, Boston.
Owens, Miss Jorado, Winchester.
Packard, Miss Anna W., Hudson.
Packard, Mrs. L. W., Ashland.
Packard, Mr. W. F., Marlborough.
Padgett, Mrs. Emma F., Stoneham.
Page, Mr. W. Putnam, Lincoln.
Paine, Mr. Frederick W., Brookline.
Palmer, Mrs. Henry W., Milton.
Parker, Mrs. Benjamin W., Dorchester.
Parker, Miss Bessie I., Dover, N. H.
*Parker, Mr. Charles Henry, Boston.
*Parker, Mrs. G. D., Boston.
Parker, Mrs. Nella D., Lynnfield Center.
*Parker, Mrs. William Amory, Boston.
Parkhurst, Mr. Clarence W., Foxboro.
Parry, Mr. Robert P., West Roxbury.
Parsons, Miss Sally, Lynn.
Partridge, Mr. Richard, Hingham.
Patten, Mrs. David L., Boston.
Patten, Miss Mary L., Dorchester.
Payne, Miss Blanche, Boston.
Peabody, Mrs. Francis, Cambridge.
Peabody, Mrs. Harlan B., Providence, R. I.
Pecker, Miss Jessie, Lynnfield Centre.
Peckham, Mr. Henry A. B., Saugus.
Pegram, Mrs. Frank R., Cohasset.
Pennell, Mrs. Henry B., Cohasset.
Penniman, Miss S. Ella, Andover.
Percy, Mrs. Karlton G., Chestnut Hill.
Perham, Mrs. Walter, Chelmsford.
Perkins, Mrs. C. E., Melrose.
Perkins, Mr. M. Sumner, Danvers.
Perrin, Mr. Arthur C., Portland, Oregon.
Perry, Mrs. Edna T., West Somerville.
Pettee, Mrs. Otis T., Newton Upper Falls.
Pettigrew, Mr. F. E., Manchester, N. H.
Pevey, Mr. Gilbert A. A., Boston.
Phelps, Mr. James W., Melrose Highlands.
Philadelphus, Mr. Gabriel, Amherst.
Pierce, Mrs. Francis A., Boston.
Pierce, Mr. W. Harding, Hudson.
Pike, Mr. Frederick N., Milton.
Pillsbury, Mrs. W. H. C., Brookline.
Pitcher, Mrs. Marion M., Hingham.
Plant, Mrs. C. Griggs, Cohasset.
Plant, Miss Lillian M., Norfolk Downs.
Pleschinger, Mr. Edward F., Boston.
Pleschinger, Mrs. Edward F., Boston.
Poland, Miss Evelyn, Reading.
Poole, Miss Marian, Malden.
Poor, Mr. J. E., Boston.
Pope, Mrs. R. L., Brookline.
Porter, Mr. John L., Stoughton.
Porter, Mrs. Willard B., Salem.
Potter, Mrs. Mary E., Boston.
Pratt, Miss Alice A., Waltham.
Pratt, Mrs. Frank R., Brookline.
Pratt, Mrs. W. W., Hingham.
Prendergast, Mr. Frank M., Boston.
Prescott, Miss Dorothy N., Plaistow, N. H.
Prescott, Mr. John R., Newtonville.
Preston, Miss Gertrude E., Wellesley.
Preston, Mrs. Horace G., Detroit, Mich.
Price, Mr. Charles R., New Bedford.
Proctor, Mrs. Guy, Somerville.
Puffer, Mr. Wm. L., Brockton.
Punchard, Mr. William H., Boston.
Purdon, Mrs. James, Milton.
Purves, Mrs. David H., New London, Conn.
Putnam, Mrs. C. E., Saugus, Maine.
Pyle, Mrs. Edwin W., Newton.
Quirin, Miss Alice M., West Somerville.
Ramale, Mr. K., Brickchurch, Pa.
Ramsdell, Mr. Arthur E., Wollaston.
Rand, Miss Alice, Brookline.
Rand, Miss Lucy H., Wollaston.
Randlett, Mrs. G. F., Watertown.
Rankins, Mrs. Maria F., Sudbury.
Rawson, Mr. George A., Newton.
Rawson, Miss Janet Bremner, Yarmouthport.
Raymond, Miss Frances A., Milton.

Rayner, Mrs. A. N., Newton Centre.
Rayner, Mrs. Ida M., Stoneham.
Read, Jr., Mr. H. A. S., Boston.
Read, Mrs. Robert M., Medford.
Reed, Mrs. E. W., North Dartmouth.
Reed, Mrs. Herbert, Bridgewater.
Reed, Mrs. Kelsey G., Lexington.
Reed, Mrs. Ralph H., Swampscott.
Reeves, Mrs. Irma F., Cambridge.
Reid, Mr. David G., Boston.
Remington, Mr. Berthold M., Fall River.
Reynolds, Mrs. William C., Boston.
Rice, Mrs. David, Boston.
Rich, Mrs. William A., Melrose.
Richards, Mr. A., Wellesley.
Richardson, Mr. Edward A., Newtonville.
Richardson, Mrs. F. E., Rowley.
Richmond, Mrs. Horace W., Wollaston.
Richmond, Mrs. Winthrop C., Brookline.
Ricker, Mrs. Frank O., East Lynn.
Rindge, Mrs. Wellington, Waban.
Robbins, Mrs. Fred G., Salem.
Roberts, Miss Frances W., Boston.
Roberts, Mrs. Grace A., Wakefield.
Roberts, Mrs. Nellie M. A., Lynnfield.
Robinson, Mrs. Arthur W., Natick.
Robinson, Mrs. Ella F., Revere.
Robinson, Mrs. Henry C., Winchester.
Robinson, Mr. N. Winthrop, Dorchester.
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